

Аксессуары, комплектующие для энкродеров, безопасных мониторов, счетчиков

Технические характеристики

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Accessories



Extension cable Paraleine

With extension cables, the actual measuring range can be used without any loss of resolution. We offer numerous extension cables in our portfolio for this purpose.

2 m

8.0000.7000.0032



Extension cable steel

With extension cables, the actual measuring range can be used without any loss of resolution. We offer numerous extension cables in our portfolio for this purpose.

2 m

8.0000.7000.0033

5 m

8.0000.7000.0034

10 m

8.0000.7000.0035



Guide pulley

With guide pulleys, linear movements can also be directed around obstacles. This not only increases their flexibility but can also compensate for installation tolerances. Idler pulleys can also act to clean off dirt and break ice.

Technical data:

Installation angle (anodized aluminum)

Guide pulley (plastic POM)

Ball bearing (Type 696-2R5)

Scope of delivery:

2 x countersunk screws for side fixing

2 x Allen screws for fixing on a flat surface

8.0000.7000.0045



Extension cable steel

With extension cables, the actual measuring range can be used without any loss of resolution. We offer numerous extension cables in our portfolio for this purpose.

5 m	8.0000.7000.0048
0,5 m	8.0000.7000.0051
1 m	8.0000.7000.0052
6,5 m	8.0000.7000.0053
3 m	8.0000.7000.0055

Accessories



EMC shield terminal

For EMC-compliant installation of the encoder cable.

Mounting on top hat rail

Shield diameter

8.0000.4G06.0312 (03-12 mm)

Weight approx. 7.4 g

Clamp (spring steel, galvanized)

Foot (spring steel)

EMC shield terminal

Mechanical CAD / STEP

8.0000.4G06.0XXX

8.0000.4G06.0312



Configuration strips

The configuration strip for the respective rated speed is inserted into the L ES03 sensor during commissioning. An L ED visualizes the respective taught-in rated speed with a flashing pattern. In this way, the certifying agency can also validate the configuration at any time.

Corresponding configuration strips are available for different rated speeds.

Configuration strip

8.CS.1111.xxxx

8.CS.1111.XXX



Safe mounting kit

The L ES.MK mounting kit contains all the components you need to install the Ants L ES02 sensor and its code tape in the lift shaft.

Safe

8.LES.MK.0001

L ES.MK- Mounting kit
Safe

Mechanical CAD / STEP

L ES.MK



Sliding plates

The sliding plates for the lateral guidance of the coded band L EX.BA in the sensors L EB02 and L ES02.

Scope of delivery:

2 x sliding plates for L EB02/ L ES02

8.LEX.ZB.0002

8.L EX.ZB.0002 Slides



Carabiner

Carabiner for fastening the code band L EX.BA to the rail fastening plates.

Scope of delivery:

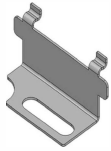
1 x carabiner

Data sheet

8.L EX.ZB.0007 Carabiner

8.LEX.ZB.0007

DE E



Locking element

The locking element is used for fastening the slides in the Ants LEB02 and Ants LES02 sensors.

The locking element is to be replaced in case of deformations or damages.

Scope of delivery:

1 x locking element



1 x oval head screw M3.5 x 12

8.LEX.ZB.0013

Data

8.LEX.ZB.0013 Locking el

Linear measuring technology

Incremental magnetic measurement system sensor head, magnetic band		Limes LI50 / B2	Resolution min. 5 µm
Accessories / Displays			Order no.
Codix 560, preset counter 6-digit 	<ul style="list-style-type: none"> - Counter, tachometer, time counter and position display in one device - Scalable display - Readable via RS232/485 interface or configurable via MODBUS or CR/LF protocol 		6.560.010.XXX
571T touch, multifunction preset counters 8-digit 	<ul style="list-style-type: none"> - Measuring function for RPM, speed, speed from elapsed time, machine cycle time, throughput time (reciprocal rotary speed), as well as numerous count functions such as position display - Fast counting input (250 kHz/HTL, 1 MHz/RS422) - 4 switching outputs as limit values (response time < 1 ms) - Scalable analog output (response time < 150 ms), resolution 16 bit - Serial interface RS232 or RS485 for reading in and out the data 		6.571T.01X.XXX

Accessories



Measuring wheel in different surfaces: cross knurls, knobs, plastic smooth or ribbed and natural rubber smooth

Measuring wheels for measuring the length of products in movement, e.g. in the paper, metal, textile, wood or plastic industry. Different wheel surfaces to meet the requirements of the various surfaces of the product to be measured – different circumferences, designed for use with Kübler encoders, available for metric and imperial systems. For evaluation, you can rely on a multitude of counters and displays from our Codix portfolio.

8.0000.3XXX.00XX

Data sheet
Measuring wheels

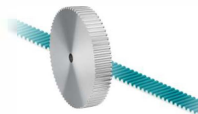
Mechanical CAD / STEP
Measuring wheels



O-Ring

Spare part for corresponding measuring wheels with circumference 200 mm, 300 mm, 6" and 12".

8.0000.7000.00XX



Pulley and toothed belt

The pulley with the toothed belt, combined with a rotary encoder, results in a flexible length measuring set for measuring positions and speeds. The complete system is easy to mount and compensates for unevenness or mounting tolerances within the application.

8.0000.AXX1.XXXX

8.0000.B1X1.XXXX



Rack and pinion

Measuring system with movable, spring-loaded encoder holder (with rack and pinion) for optimum contact pressure and protection of the encoder shaft.

Optimally matched components: One rotation of the pinion corresponds to a travel of 50 mm.

8.0010.7000.0001

8.0000.7000.000X



Encoder spring arm for incremental encoders KIS50, 5000 and 5805 as well as for absolute encoders M58, F58 and 58

The encoder spring arm MWE60 in combination with an encoder and a measuring wheel is the ideal solution for reliable speed, position and distance measurement in applications with linear movements. An integrated spring ensures the contact pressure of the measuring wheel on the measuring surface, which is necessary for reliable measured value acquisition. The desired contact pressure is individually adjustable.


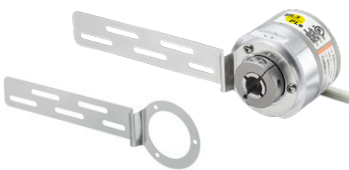

8.MWE60.X21.00.0000.0000

**MWE60 - Encoder spring
arm**







Mechanical CAD / STEP
**MWE60 Encoder spring
arm**

Accessories


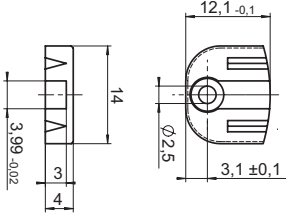

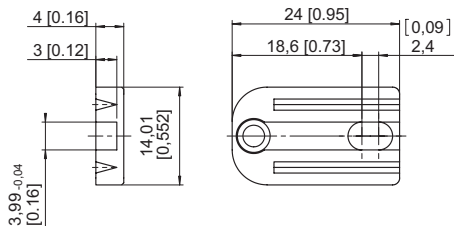

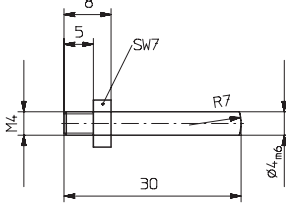
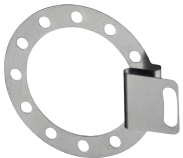
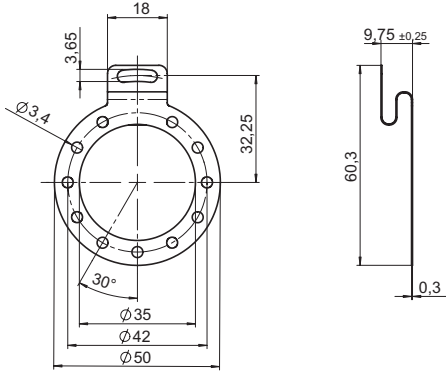

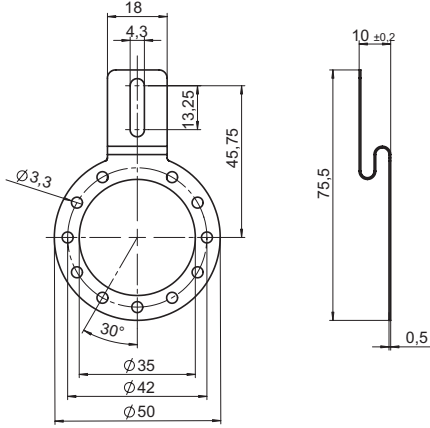
Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview							
Figure		Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders		Absolute multiturn encoders			
						3620, 3720	KIH50, 5020, 5026	5834 Motor-Line	5823, 5824, 5825, 5834	3671, M3678, F3673, F3678	5873, 5878, 5870, 5872	5873 Motor-Line	F3683, F3688	M3681, M3683, M3688	5883, 5888, F5883, F5888
		Spring element, short For applications with limited axial play and low dynamics, and reduced mounting space	36XX 42 [1.65] M36XX 42 [1.65] F36XX 42 [1.65] 37XX 40 [1.57] 50XX 42 [1.65] 58XX 42 [1.65] F58XX 42 [1.65]	8.0010.4H00.0000 <i>Connection to the application:</i> cylindrical pin	4	X	X		X	X		X	X	X	X
		Spring element, long For applications with axial play and low dynamics	36XX 61,4 [2.42] M36XX 61,4 [2.42] F36XX 61,4 [2.42] 37XX 61,4 [2.42] 50XX 67,4 [2.65] 58XX 73,4 [2.89] F58XX 73,4 [2.89]	8.0010.4100.0000 <i>Connection to the application:</i> cylindrical pin	4	X	X		X	X		X	X	X	X
		Torque stop, short (flexible) For applications with axial and radial play, low dynamics	64.5 [2.54]	8.0010.40M0.0000 <i>Connection to the application:</i> 1 screw	4		X		X		X			X	X
		Torque stop, medium (flexible) For applications with axial and radial play for constant rotary movements	65 ... 91.5 [2.56 ... 3.60]	8.0010.40E0.0000 <i>Connection to the application:</i> 1 screw	4		X		X		X			X	X
		Torque stop, long (flexible) For applications with axial and radial play and low dynamics	80 ... 170 [3.15 ... 6.69]	8.0010.4R00.0000 <i>Connection to the application:</i> 1 screw	5		X		X		X			X	X
		Stator coupling, double-winged For applications with axial and radial play and high dynamics	46 [1.81]	8.0010.4C00.0000 <i>Connection to the application:</i> 2 screws	5	X				X					X
		Stator coupling, double-winged For applications with high demands for accuracy	63 [2.48]	8.0010.4D00.0000 <i>Connection to the application:</i> 2 screws	5		Flansch C + D	X	X		X	X		X	
		Stator coupling, for fixing to side of encoder For standard applications with axial and radial play, and high dynamics	65 [2.56]	8.0010.1602.0000 <i>Connection to the application:</i> 3 screws	6		Flansch C + D		X		X			X	X
		Stator coupling, for fixing to front of encoder For applications with axial and radial play and high dynamics	65 [2.56]	8.0010.40L0.0000 <i>Connection to the application:</i> 3 screws	6		X		X		X			X	X
		Spring tether element For applications with low axial and radial play and low dynamics	42 ... 84.5 [1.65 ... 3.33]	8.0010.40W0.0000 <i>Connection to the application:</i> 1 screw	6		X		X		X			X	X

Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview						
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders			Absolute multiturn encoders		
					5834FSx	5020	5823, 5824, 5825	5823, 5824, 5825	5873FSx	5873, 5878	5873 Motor-Line	5883FSx	5883, 5888, F5883, F5888, F5883M, F5888M	
	Stator coupling Designed for functional safety thanks to the 4-screw-principle.	63 [2.48]	8.0010.40B2.00FS <i>Connection to the application:</i> 4 screws	7	X	X	X	X	X	X	X	X		
	Torque stop, flexible Designed for functional safety. For applications with axial and radial play and low dynamics.	79 ... 285 [3.11 ... 11.22]	8.0010.4047.00FS <i>Connection to the application:</i> 1 screw	7	X	X	X		X	X		X	X	X
	Torque stop set, rigid Designed for functional safety. For applications with very low axial and radial play and low dynamics.	65 ... 287 mm [2.56 ... 11.30]	8.0010.4051.00FS <i>Connection to the application:</i> cylindrical pin	8	X	X	X		X	X			X	X

Accessories


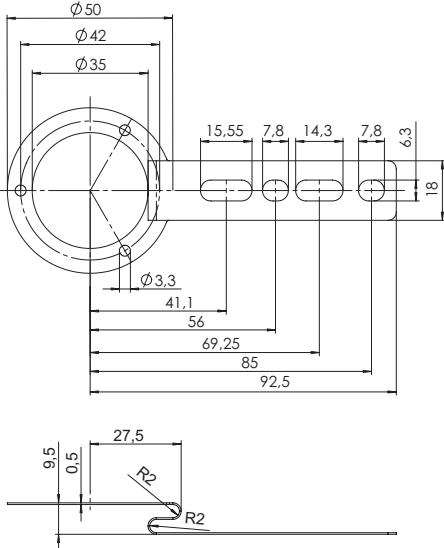

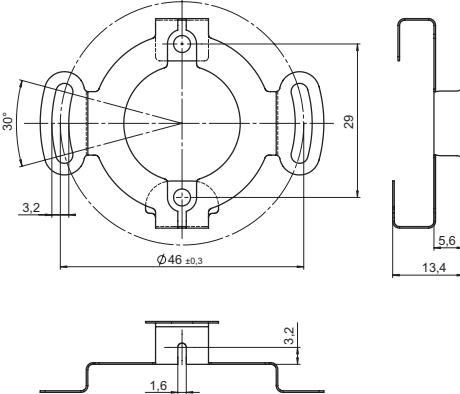

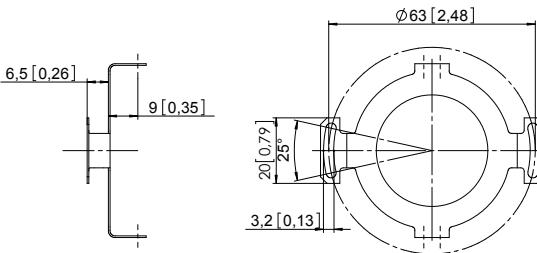
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview		
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	A020, A02H	H120
	Spring element, short For applications with reduced mounting space	76 [2.99]	8.0010.4J00.0000 Connection to the application: cylindrical pin	9	X	
	Spring element, long For applications with high axial play	110 [4.33]	8.0010.4K00.0000 Connection to the application: cylindrical pin	9	X	
	Torque stop, short For applications with axial play	149 [5.87]	8.0010.4T00.0000 Connection to the application: s. details	9	X	
	Torque stop, long For applications with fastening points located on variable pitch circle diameters	104 ... 206 [4.09 ... 8.11]	8.0010.4E00.0000 Connection to the application: 1 screw	10	X	
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S0.0000 8.0010.40T0.0000 8.0010.40U0.0000 Connection to the application: 1 screw	10	X	X
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S1.0000 8.0010.40T1.0000 8.0010.40U1.0000 Connection to the application: 1 screw	11		X
	Stator coupling For applications with axial and radial play and high dynamics	119 [4.69]	8.0010.40V0.0000 Connection to the application: 2 screws	11	X	X

Accessories


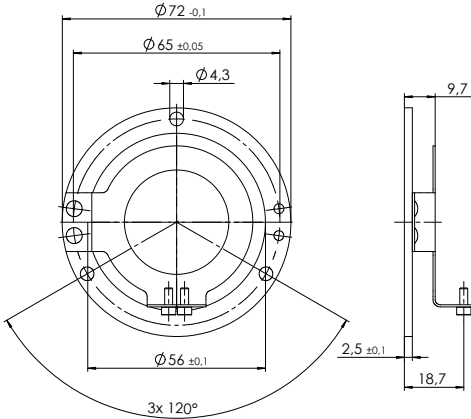

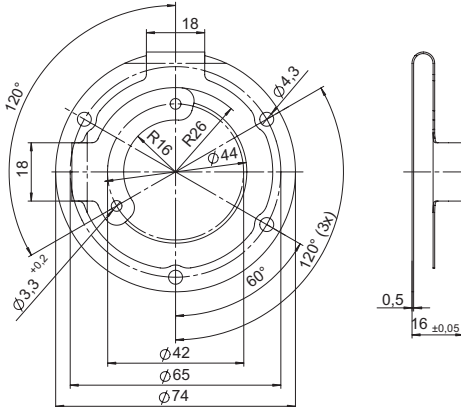


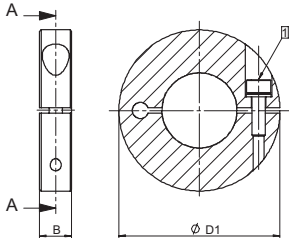
Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short 		Scope of delivery: <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long 		Scope of delivery: <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000 ¹⁾
Torque stop, short 		Scope of delivery: <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium 		Scope of delivery: <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000 ¹⁾

1) Stock types


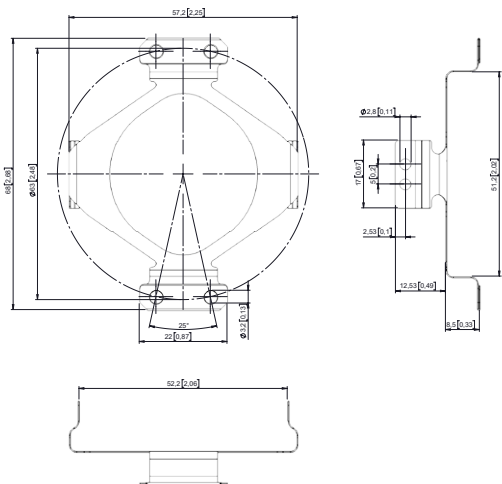
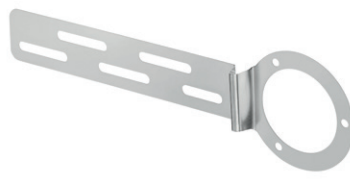
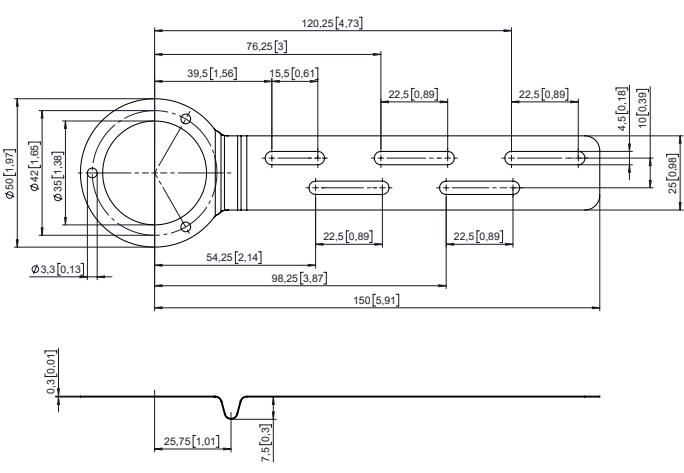
Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details			Order no.
Torque stop, long 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.4R00.0000
Stator coupling, double-winged for front fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 2 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 screws (not supplied) 	8.0010.4C00.0000
Stator coupling, double-winged for side fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 4 screws M2.5 x 6 [0.24] for fixing to the encoders <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 socket head screws M3 x 8 [0.32] with washer (supplied) 	8.0010.4D00.0000


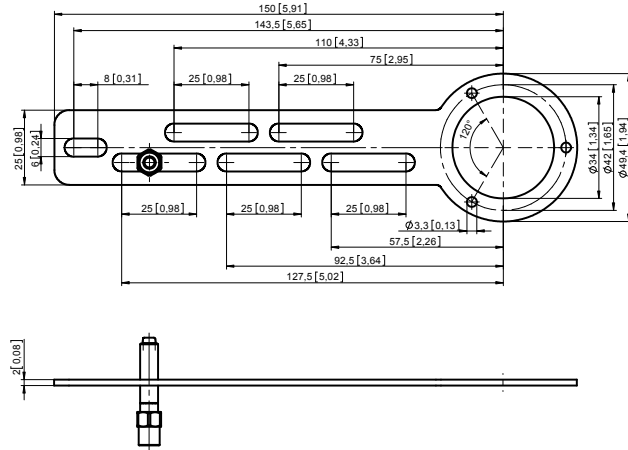

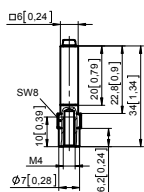
Accessories


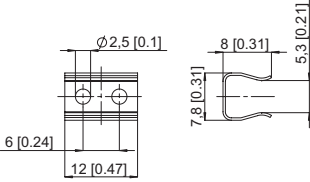

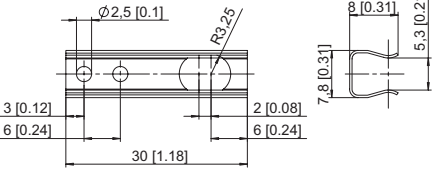

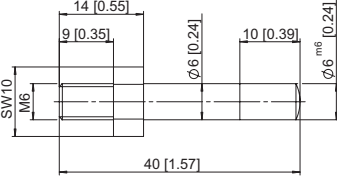

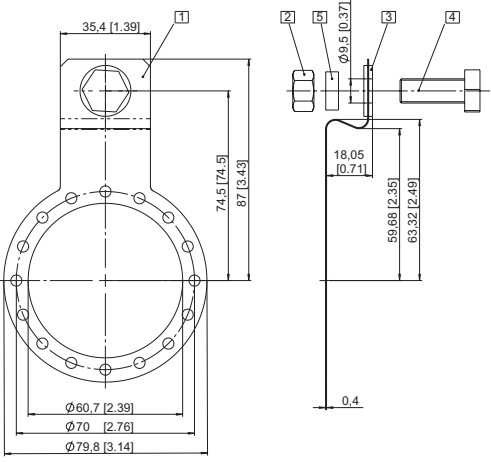
Fixing components for hollow shaft encoders		For encoders up to ø 58 mm		Details																							
Dimensions / Details		Dimensions in mm [inch]		Order no.																							
Stator coupling for side fixing onto the encoder flange			<div>Scope of delivery:</div> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <div>Connection to application:</div> <ul style="list-style-type: none">- 3 screws (not supplied)																								
			8.0010.1602.0000																								
Stator coupling for front fixing onto the encoder flange			<div>Scope of delivery:</div> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <div>Connection to application:</div> <ul style="list-style-type: none">- 3 screws (not supplied)																								
			8.0010.40L0.0000																								
Spring tether element		<div>Scope of delivery:</div> <ul style="list-style-type: none">- spring tether element- 1 screw for fixing to the encoder <div>Connection to application:</div> <ul style="list-style-type: none">- 1 screw (not supplied)			8.0010.40W0.0000																						
Clamping ring Stainless steel, for high rotational speeds			<table><tr><th></th><th>for encoder</th><th>B</th><th>D1</th><th>for hollow shaft ø</th><th></th></tr><tr><td rowspan="2">582X</td><td></td><td>6 [0.236]</td><td>29 [1.14]</td><td>10 [0.39]</td><td>8.0000.4V00.0000</td></tr><tr><td></td><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td>8.0000.4W00.0000</td></tr><tr><td>5020</td><td></td><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td>8.0010.4W01.0000</td></tr></table>			for encoder	B	D1	for hollow shaft ø		582X		6 [0.236]	29 [1.14]	10 [0.39]	8.0000.4V00.0000		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0000.4W00.0000	5020		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0010.4W01.0000
				for encoder	B	D1	for hollow shaft ø																				
582X		6 [0.236]	29 [1.14]	10 [0.39]	8.0000.4V00.0000																						
		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0000.4W00.0000																						
5020		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0010.4W01.0000																						
		<div>1 screw DIN 912 A2 M2.5, max. tightening torque 0.45 Nm</div>																									

Accessories


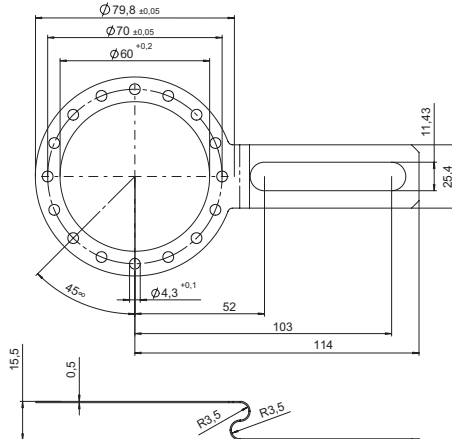

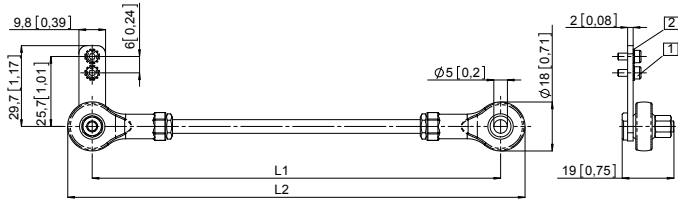
Fixing components for hollow shaft encoders		For encoders up to \varnothing 58 mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Stator coupling 		8.0010.40B2.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 4 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 4 screws (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < \pm 0.25 mm - Radial offset < \pm 0.20 mm - Angular offset < 1° 	
Torque stop, flexible 		8.0010.4047.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < \pm 0.25 mm - Radial offset < \pm 0.20 mm - Angular offset < 1° 	

Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Torque stop set, rigid 		8.0010.4051.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 cylindrical pin 8.0010.4049.0075 (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < ± 0.25 mm - Radial offset < ± 0.20 mm - Angular offset < 1° 	
Cylindrical pin (replacement) 		8.0010.4049.0075	
		<p>suitable for:</p> <p>torque stop 8.0010.4051.00FS</p>	


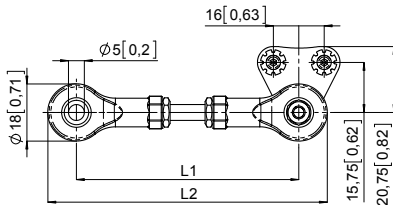
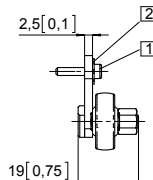

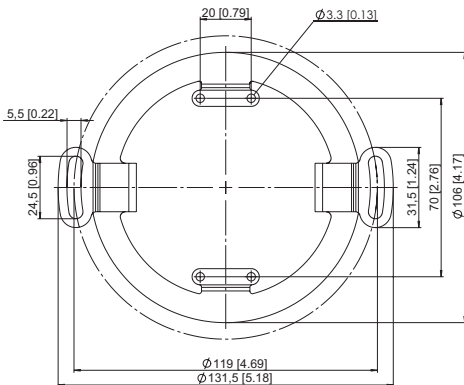
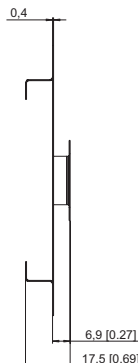
Fixing components for hollow shaft encoders		For encoders > Ø 58 mm	Details
Dimensions / Details		Dimensions in mm [inch]	Order no.
Spring element, short 		Scope of delivery: <ul style="list-style-type: none"> - Spring element (stainless steel) - 2 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - Cylindrical pin (8.0010.4700.0003) (not supplied) 	8.0010.4J00.0000
Spring element, long 		Scope of delivery: <ul style="list-style-type: none"> - Spring element (stainless steel) - 2 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - Cylindrical pin (8.0010.4700.0003) (not supplied) 	8.0010.4K00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4J00.0000) and long (8.0010.4K00.0000)	8.0010.4700.0003
Torque stop, short 		Scope of delivery: <ol style="list-style-type: none"> 1 Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ol style="list-style-type: none"> 2 Hexagonal nut 3/8 - 16 UNC 3 Washer (isolating) 4 Hexagonal screw 3/8 16 UNC x 1" 5 Washer D10.4 x 15 x 15 (supplied) 	8.0010.4T00.0000 1)

Accessories




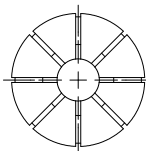
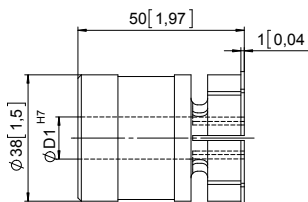
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Details													
Dimensions / Details		Dimensions in mm [inch]		Order no.													
<div>Torque stop, long</div> <div></div>		<div></div>		<div>Scope of delivery:</div> <div><ul style="list-style-type: none">- Fastening arm (stainless-steel)- 3 screws for fixing to the encoder</div> <div>Connection to application:</div> <div><ul style="list-style-type: none">- 1 screw (not supplied)</div>	<div>8.0010.4E00.0000 ¹⁾</div>												
<div>Tether arm, long</div> <div></div>		<table><tr><th>Tether arm</th><th>L1</th><th>L2</th></tr><tr><td>70 mm [2.76]</td><td>64 ... 74 [2.51 ... 2.91]</td><td>82 ... 92 [3.23 ... 3.62]</td></tr><tr><td>100 mm [3.93]</td><td>94 ... 104 [3.70 ... 4.09]</td><td>112 ... 122 [4.41 ... 4.80]</td></tr><tr><td>150 mm [5.91]</td><td>144 ... 154 [5.67 ... 6.06]</td><td>162 ... 172 [6.38 ... 6.77]</td></tr></table>		Tether arm	L1	L2	70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	<div>Scope of delivery:</div> <div><ul style="list-style-type: none">- Tether arm- For fixing to the encoder:<div><div>1</div>2 cap screws M2.5 x 6 [0.24]</div><div><div>2</div>2 lock washers</div></div> <div>Connection to application:</div> <div><ul style="list-style-type: none">- 1 screw (not supplied)</div>	<div>8.0010.40S0.0000</div> <div>8.0010.40T0.0000</div> <div>8.0010.40U0.0000</div>
Tether arm	L1	L2															
70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]															
100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]															
150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]															
		<div></div>															

1) Stock types


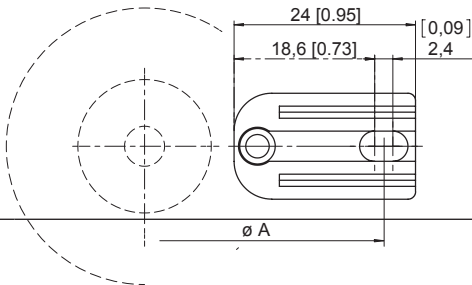
Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview
Dimensions / Details		Dimensions in mm [inch]		Order no.
<div>Tether arm, long</div> <div></div>	Tether arm	L1	L2	
	70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	8.0010.40S1.0000
	100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	8.0010.40T1.0000
	150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	8.0010.40U1.0000
	<div>Scope of delivery:</div> <div><div>- Tether arm</div><div>- For fixing to the encoder:</div><div><div>1</div>2 cap screws M2,5 x 12 [0.47]</div><div><div>2</div>2 lock washers</div></div> <div>Connection to application:</div> <div>- 1 screw (not supplied)</div>			
<div></div>		<div></div>		
<div>Stator coupling</div> <div></div>	<div>Scope of delivery:</div> <div><div>- Stator coupling (stainless steel)</div><div>- 4 screws for fixing to the encoder</div></div> <div>Connection to application:</div> <div>- 2 screws (not supplied)</div>			8.0010.40V0.0000
	<div></div>		<div></div>	

Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm	Overview																												
Dimensions / Details	Dimensions in mm [inch]	Order no.																													
Protective cover 		<p>For applications with a very high degree of pollution, Kübler now offers a protective cover for</p> <ul style="list-style-type: none">• Improved reliability• Extension of the service life of the encoder <p>Scope of delivery:</p> <ul style="list-style-type: none">• Protective cover• Fastening arm (8.0010.4T00.0000)• 3 screws for fixing to the encoder	8.0010.40Y0.0001																												
Tapered shaft mounting kit for A02H with hollow shaft, ø 38 mm [1.50"] 		<p>For use in upgrading for tapered shaft mounting. Tapered shafts are used for high-precision direct coupling.</p> <p>An isolation insert is also included in the mounting kit; this reliably protects the encoder from shaft currents.</p> <p>Included in the set:</p> <ul style="list-style-type: none">• Insert for cone blind hole, cone 1:10, 17 mm [0.67"] length• Isolation insert• Allen screw for central fixing	8.0010.4028.0000																												
Isolation insert for hollow shaft, ø 38 mm [1.50"] Temperature range -40°C ... +115°C [-40°F ... +239°F]   		<p>ø D1:</p> <table><tr><td>12 mm [0.47"]</td><td>8.0010.4091.0000</td></tr><tr><td>14 mm [0.55"]</td><td>8.0010.4027.0000</td></tr><tr><td>15 mm [0.59"]</td><td>8.0010.4038.0000</td></tr><tr><td>16 mm [0.63"]</td><td>8.0010.4019.0000</td></tr><tr><td>18 mm [0.71"]</td><td>8.0010.4080.0000</td></tr><tr><td>20 mm [0.79"]</td><td>8.0010.4011.0000</td></tr><tr><td>25 mm [0.98"]</td><td>8.0010.4012.0000</td></tr><tr><td>30 mm [1.18"]</td><td>8.0010.4016.0000</td></tr><tr><td>32 mm [1.26"]</td><td>8.0010.4015.0000</td></tr><tr><td>1/2"</td><td>8.0010.4013.0000</td></tr><tr><td>5/8"</td><td>8.0010.4070.0000</td></tr><tr><td>3/4"</td><td>8.0010.4090.0000</td></tr><tr><td>1"</td><td>8.0010.4050.0000</td></tr><tr><td>1 1/4"</td><td>8.0010.4060.0000</td></tr></table>	12 mm [0.47"]	8.0010.4091.0000	14 mm [0.55"]	8.0010.4027.0000	15 mm [0.59"]	8.0010.4038.0000	16 mm [0.63"]	8.0010.4019.0000	18 mm [0.71"]	8.0010.4080.0000	20 mm [0.79"]	8.0010.4011.0000	25 mm [0.98"]	8.0010.4012.0000	30 mm [1.18"]	8.0010.4016.0000	32 mm [1.26"]	8.0010.4015.0000	1/2"	8.0010.4013.0000	5/8"	8.0010.4070.0000	3/4"	8.0010.4090.0000	1"	8.0010.4050.0000	1 1/4"	8.0010.4060.0000	
12 mm [0.47"]	8.0010.4091.0000																														
14 mm [0.55"]	8.0010.4027.0000																														
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18 mm [0.71"]	8.0010.4080.0000																														
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25 mm [0.98"]	8.0010.4012.0000																														
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1/2"	8.0010.4013.0000																														
5/8"	8.0010.4070.0000																														
3/4"	8.0010.4090.0000																														
1"	8.0010.4050.0000																														
1 1/4"	8.0010.4060.0000																														
Isolation insert for hollow shaft, ø 42 mm [1.65"]	<p>external diameter 42 mm [1.65"] / internal diameter 38 mm [1.50"]</p> <p>external diameter 42 mm [1.65"] / internal diameter 12 mm [0.47"]</p>	8.0010.4017.0000 8.0010.4029.0000																													

Accessories

Fixing components for hollow shaft encoders		For encoders up to \varnothing 58 mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000
Torque stop, short		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000

Accessories

Connection of motor and encoder	Couplings	Bellows and spring washer couplings
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Bellows couplings provide cost-effective connection of the motor and encoder. They are also able to correct any angular errors between the drive and encoder.

Spring washer couplings are used with high speeds.

Order code		8.0000 . 1 XXX . XX XX				
Couplings		Type	a	b	c	
a	Type of coupling					
102 = Bellows-type ø 19 mm [0.75"]						
202 = Bellows-type ø 15 mm [0.59"]						
301 = Spring washer type, ø 30 mm [1.18"], one-part						
401 = Spring washer type, ø 30 mm [1.18"], three part, plug-in						
502 = Bellows-type ø 25 mm [0.98"]						
b	Bore diameter d1 (see technical data)					
Note: for the bore diameter d1 = 1/4" please enter Code A2						
c	Bore diameter d2 (see technical data)					
Example: d1 = 10 mm [0.39"] and d2 = 12 mm [0.47"] Order no. = 8.0000.1X0X.1012						
Stock types 8.0000.1102.1010						

Technical data						
Type		8.0000.1102.XXXX	8.0000.1202.XXXX	8.0000.1301.XXXX	8.0000.1401.XXXX	8.0000.1502.XXXX
Maximum speed	min ⁻¹	10000	10000	12000	12000	10000
Maximum torque	Ncm	120	40	80	60	200
Maximum displacement	radial mm	± 0.3	± 0.25	± 0.4	± 0.3	± 0.35
	axial mm	± 0.5	± 0.45	± 0.4	± 0.4	± 0.54
	angular °	± 4°	± 4°	± 3°	± 2.5°	± 4°
Torsion spring stiffness	Nm/rad	150	85	150	30	183
Radial spring stiffness	N/mm	10	20	6	40	17.8
Moment of inertia	gcm ²	9.5	2.1	19	35	20
Max. tightening torque	Ncm	150	70	80	80	120
Working temperature		-30°C ... +120°C [-22°F ... +248°F]	-30°C ... +120°C [-22°F ... +248°F]	-30°C ... +120°C [-22°F ... +248°F]	-10°C ... +80°C [+14°F ... +176°F]	-30°C ... +120°C [-22°F ... +248°F]
Weight approx.		16 g [0.56 oz]	6.5 g [0.23 oz]	16 g [0.56 oz]	30 g [1.06 oz]	24 g [0.85 oz]
Material	flange bellows or spring washer/casing	Al, anodized stainless steel	Al, anodized stainless steel	Al, anodized stainless steel	Al, anodized PA 6.6 gf.	Al, anodized stainless steel
Diameter d/d1 from ... to	mm [inch]	3 ... 12 [0.12 ... 0.47]	3 ... 9 [0.12 ... 0.35]	3 ... 8 [0.12 ... 0.32]	4 ... 16 [0.16 ... 0.47]	3 ... 16 [0.12 ... 0.63]
Standard bore diameter	(d1 / d2) mm [inch]	12 / 12 [0.47 ... 0.47]	08 / 06 [0.32 ... 0.24]	06 / 06 [0.24 ... 0.24]	12 / 12 [0.47 ... 0.47]	15 / 12 [0.59 ... 0.47]
		12 / 10 [0.47 ... 0.39]	06 / 06 [0.24 ... 0.24]		12 / 10 [0.47 ... 0.39]	14 / 12 [0.55 ... 0.47]
		10 / 10 [0.39 ... 0.39]	06 / 04 [0.24 ... 0.16]		10 / 10 [0.39 ... 0.39]	14 / 10 [0.55 ... 0.39]
		10 / 08 [0.39 ... 0.32]	04 / 04 [0.16 ... 0.16]		10 / 06 [0.39 ... 0.24]	10 / 10 [0.39 ... 0.39]
		10 / 06 [0.39 ... 0.24]			06 / 06 [0.24 ... 0.24]	06 / 06 [0.24 ... 0.24]
		08 / 08 [0.32 ... 0.32]			1/4" / 10	
		06 / 06 [0.24 ... 0.24]			1/4" / 06	

Description and applications

Manufacturing and installation tolerances as well as the effects of temperature cause alignment errors between shafts in drive engineering which can sometimes lead to extreme overload on the bearings.

This may result in increased wear of the bearings and may lead to premature failure of the encoder. By using couplings, these alignment errors can be compensated, thereby reducing the load on the bearings to a minimum. A distinction should be made between three different kinds of alignment error: radial, angular and axial displacement.

Whilst with torsion-free but flexible shaft couplings, axial shaft displacements produce only static forces in the coupling, radial and angular displacements produce alternating stresses, restoring forces and moments which may have an impact on adjoining components (shaft bearings).

Depending on the type of coupling, particular attention should be paid to radial shaft displacement which should be kept to a minimum.

Accessories

Connection of motor and encoder

Couplings

Bellows and spring washer couplings

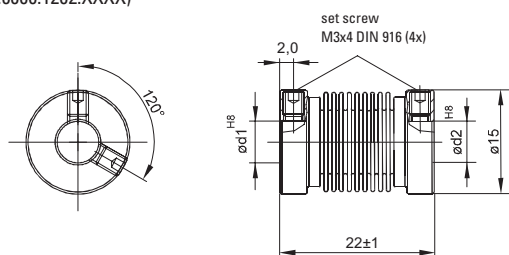
Metal bellows-type couplings (.1102, .1202 und .1502)

Metal bellows-type couplings are recommended as an inexpensive type of coupling. They are also suitable for compensating larger angle displacements.

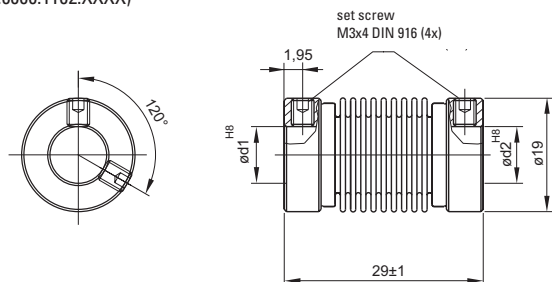
Dimensions

Dimensions in mm

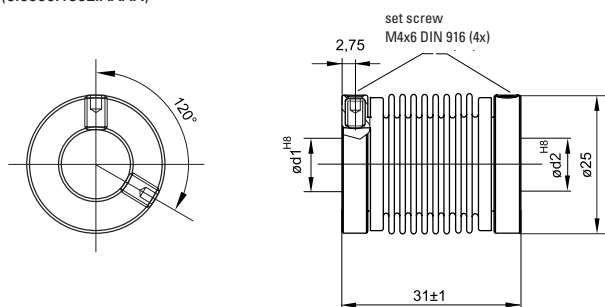
Bellows-type coupling $\varnothing 15$ [0.59]
(8.0000.1202.XXXX)



Bellows-type coupling $\varnothing 19$ [0.75]
(8.0000.1102.XXXX)



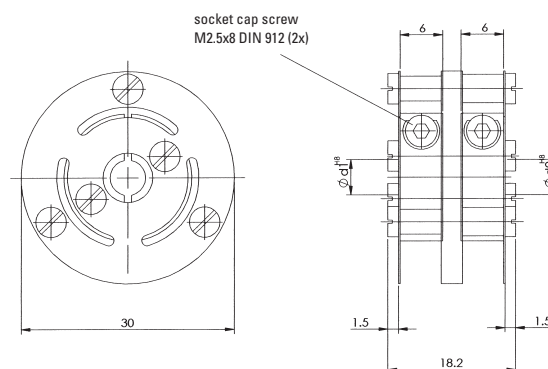
Bellows-type coupling $\varnothing 25$ [0.98]
(8.0000.1502.XXXX)



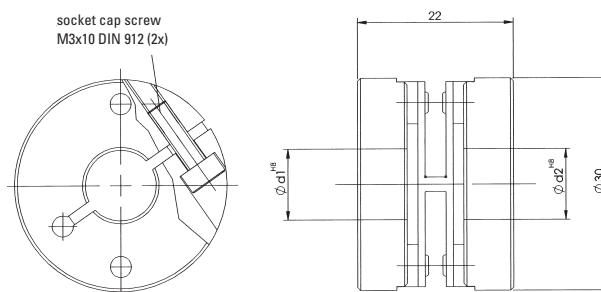
Spring washer-type couplings (.1301 und .1401)

Spring washer couplings are used primarily where high speeds and minimal axial errors occur. For applications requiring potential separation between the encoder and the drive, use the electrically isolating spring washer coupling.

Spring washer-type coupling, one-part
(8.0000.1301.XXXX)

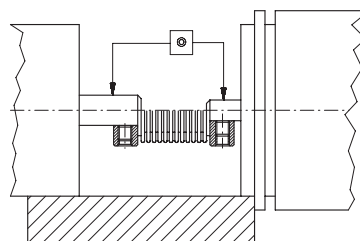


Spring washer-type coupling, three part, plug-in
(8.0000.1401.XXXX)



Installation instructions

1. Check shaft for displacement; see technical data for details.
2. Align and adjust coupling on shafts.
3. Tighten locking screws carefully. Avoid overtightening.
4. During installation protect the coupling from damage and from overbending.



Accessories

Connection of motor and encoder	Couplings	Bellows couplings (FS)
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Bellows couplings provide cost-effective connection of the motor and encoder. They are also able to correct any angular errors between the drive and encoder.

These bellows couplings (FS) are used for safe connection of applications and Sendix SIL encoders.

The safety-oriented bellows coupling has, in addition to the metallic bellows, internal claws that ensure the driving of the encoder in case of breakage of the bellows connection.

Order code Couplings	8.0000 Type	. 1	X	FS	. XX	XX
		a			b	c
a Type of coupling 5 = bellows coupling ø 25 mm [0.98"]						
b Bore diameter d1 (see technical data)						
c Bore diameter d2 (see technical data)						
Example: d1 = 10 mm and d2 = 12 mm order no. = 8.0000.15FS.1012						

Accessory	Order no.
Screw retention Loctite 243, 5 ml	8.0000.4G05.0000

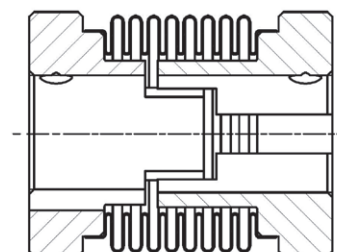
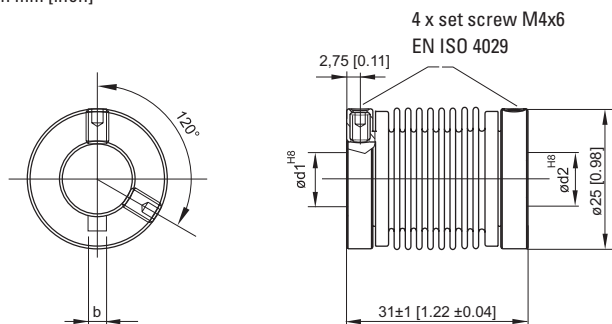
Technical data

Mechanical characteristics	
Max. speed	10000 min ⁻¹
Max. torque	200 Ncm
Max. shaft offset	radial ± 0.3 mm axial ± 0.45 mm angular ± 3°
Torsion spring stiffness	183 Nm/rad
Radial spring stiffness	17.8 N/mm
Moment of inertia	9.1 gcm ²
Headless set screw tightening torque	min. 80 Ncm max. 100 Ncm

Working temperature range	-30°C ... +120°C [-22 ... +248°F]
Weight approx.	54 g
Material	flange stainless steel 1.4104 bellows stainless steel 1.4571
Standard bore diameter	(d1 / d2) 10 / 10 mm [0.39 / 0.39"] 10 / 12 mm [0.39 / 0.47"] 12 / 12 mm [0.47 / 0.47"]
Insertion depth	min. 6 mm [0.24"] max. 11 mm [0.43"]

Dimensions

Dimensions in mm [inch]



Nut DIN 6885

nut width b	d1 / d2
3 [0.12]	10 [0.39]
4 [0.16]	12 [0.47]

Accessories

Connection of motor and encoder

Flexible shaft coupling

Double loop coupling



The safe, uncomplicated and economical solution, if drive shafts with angular, radial and/or axial displacement are to be friction-locked together.

Order no. size 1

Bore diameter both sides 6 mm [0.24"]

8.0000.1J01.0606

Order no. size 2

Bore diameter both sides 10 mm [0.39"]

8.0000.1K01.1010 ¹⁾

Bore diameter 11 mm [0.43"] and 12 mm [0.47"] with keyway

8.0000.1L01.1112

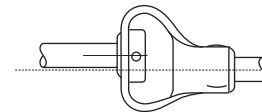
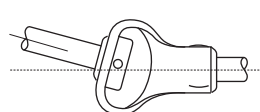
Technical data

	Size 1	Size 2
Max. speed	3000 min ⁻¹	3000 min ⁻¹
Max. torque	0.5 Nm	2.0 Nm
Max. offset of shafts	radial ± 2 mm	± 3 mm
	axial ± 2 mm	± 4 mm
	angular ± 10°	± 12°
Torsion spring stiffness	13 Nm/rad	28 Nm/rad
Radial spring stiffness	13 N/mm	7 N/mm
Moment of inertia	41 gcm ²	106 gcm ²
Max. clamping torque	100 Ncm	100 Ncm
Weight, approx.	33 g [1.16 oz]	85 g [3.35 oz]
Temperature range	-30°C ... + 80°C [-22°F ... +176°F]	
Material	flange	steel galvanized
	connecting element	Polyurethane

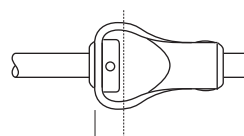
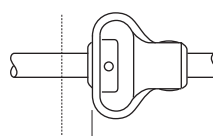
Functional principle

Compensation of an angular misalignment

Compensation of a radial misalignment



Compensation of a axial misalignment



1) Stock types

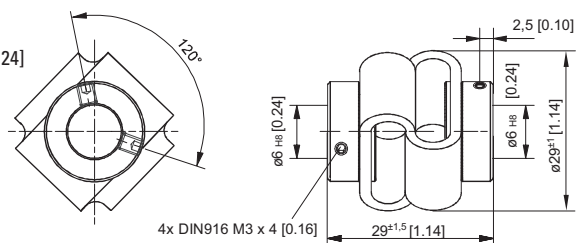
Accessories

Connection of motor and encoder	Flexible shaft coupling	Double loop coupling
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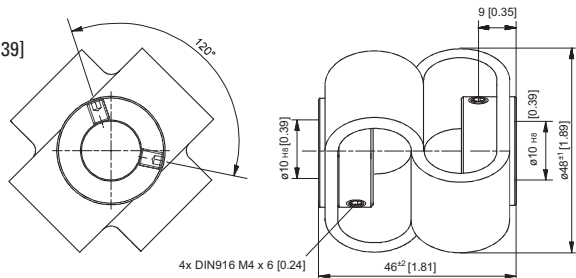
Dimensions

Dimensions in mm

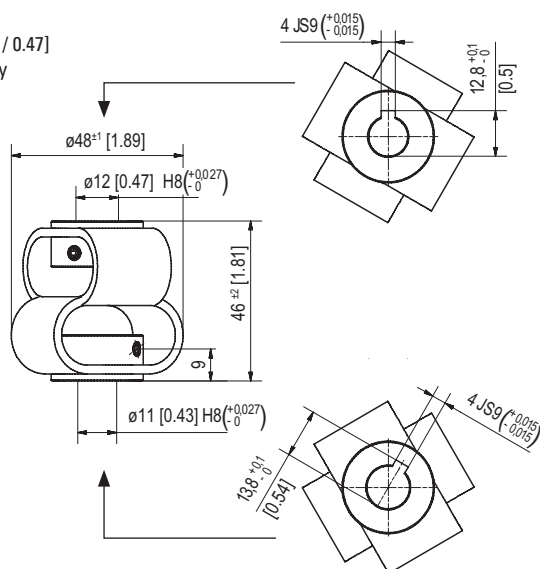
Size 1
6 / 6
[0.24 / 0.24]



Size 2
10 / 10
[0.39 / 0.39]



Size 2
11 / 12 [0.43 / 0.47]
with keyway


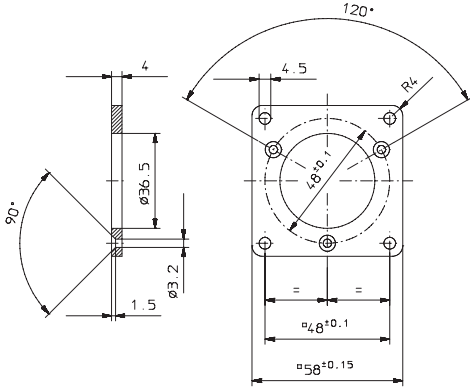
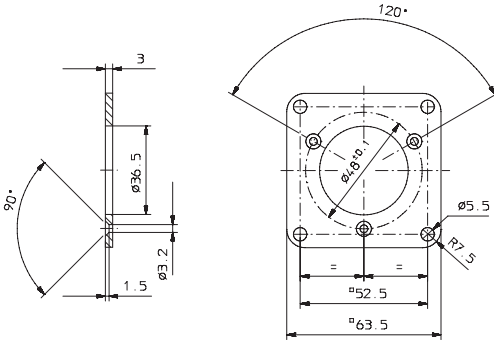
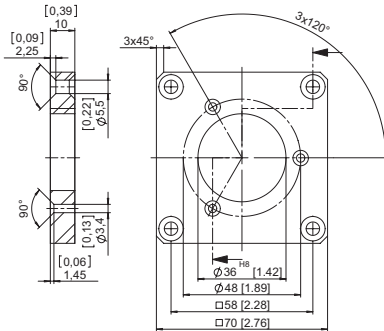
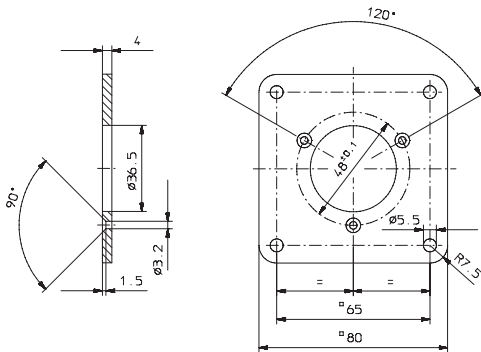


Fixing components for shaft encoders

Overview

Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders		
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168
	Flange, square Suitable for shaft encoders with clamping flange <div> <input type="checkbox"/> 58.0 [2.28"], 4 [0.16"] thick <input type="checkbox"/> 63.5 [2.5"], 3 [0.12"] thick <input type="checkbox"/> 70.0 [2.76"], 10 [0.39"] thick <input type="checkbox"/> 80.0 [3.15"], 4 [0.16"] thick </div>	8.0010.2100.0000 8.0010.2120.0000 8.0010.2600.0000 8.0010.2800.0000	675 675 675 675	X		X		X	X	
	Flange ø 65 mm [2.56"] With this adapter flange, Küber encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]	8.0010.2230.0000	676	X		X		X	X	
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000 8.0010.2170.0000	676	X	X		X	X		X
	Flange, ø 58 mm [2.28"] Converts encoders with a clamping flange into synchro flange.	8.0010.2180.0000	676	X		X		X	X	
	Flange, ø 90 mm [3.54"] Mechanically compatible with former encoder Type 9000	8.0010.2270.0000	677	X		X		X	X	
	Angular flange 80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]	8.0010.2300.0000	677	X		X			X	
	Assembly bell Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set	8.0000.4500.XXYY	678	X		X		X	X	
	Fastening eccentrics For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.	8.0010.4200.0000 8.0010.4100.0000	679	see table page 679						
	Robust bearing unit Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]	8.0010.8200.000C	680	X		X		X	X	
	Bearing box	8.0010.8200.0004	681	X		X		X	X	

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		Scope of delivery: - flange (aluminum) - 3 screws for fixing to the encoder Connection to application: - 4 screws (not supplied)
		
		
		
		8.0010.2100.0000
		8.0010.2120.0000
		8.0010.2600.0000
		8.0010.2800.0000

Accessories

Fixing components for shaft encoders

Details

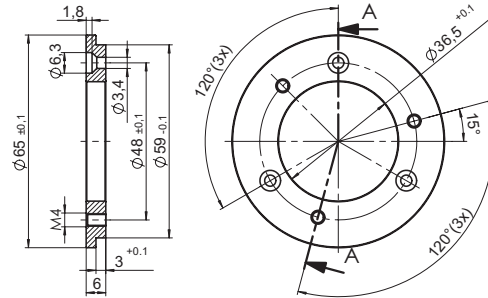
Dimensions / Details

Dimensions in mm [inch]

Order no.

Flange, ø 65 [2.56]

With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].



Scope of delivery:

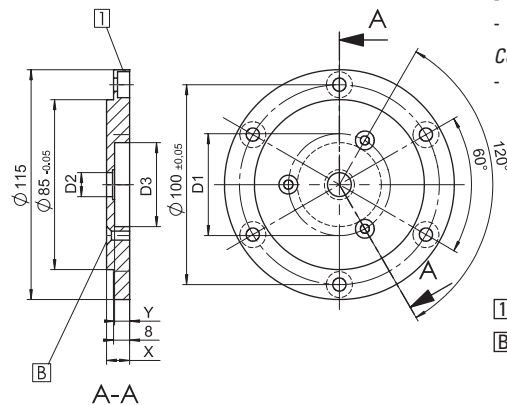
- flange (aluminum)
- 3 screws for fixing to the encoder

Connection to application:

- 3 screws (not supplied)

8.0010.2230.0000

Flange, ø 115 [4.53], Euroflange (Euro REO 444)



Scope of delivery:

- flange (aluminum)
- 3 screws for encoder mounting

Connection to application:

- 6 screws (not supplied)

1 Countersunk DIN 74-Hm6

B See table

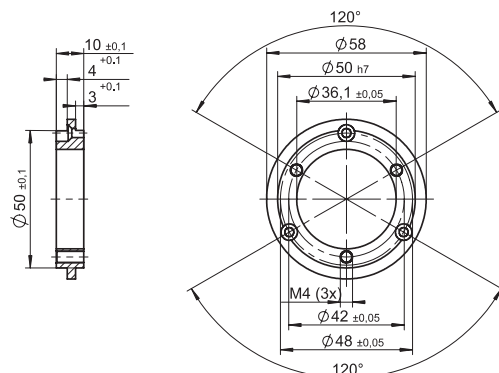
encoder type	D1	D2	D3	X	Y	B
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4

8.0010.2160.0000

8.0010.2170.0000

Flange, ø 58 [2.28]

Converts encoders with a clamping flange into synchro flange.



Scope of delivery:


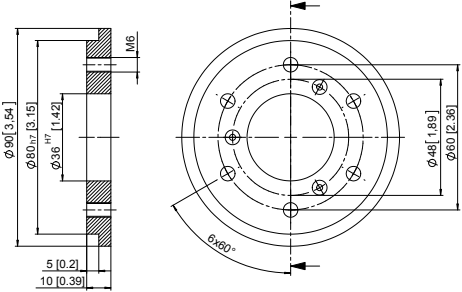

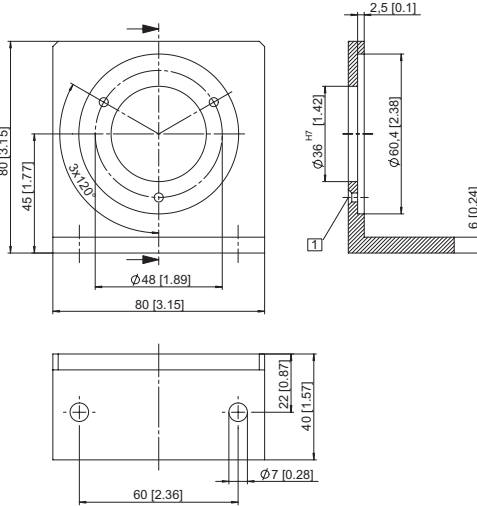
- flange (aluminum)
- 3 screws for encoder mounting

Connection to application:

- 3 screws (not supplied)

8.0010.2180.0000

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, $\varnothing 90$ [3.54] Mechanically compatible with former encoder type 9000 	 <p> $\varnothing 90$ [3.54] $\varnothing 80_{+0.12}^{-0.15}$ $\varnothing 36_{+0.07}^{-0.09}$ M6 5 [0.2] 10 [0.39] $\varnothing 48$ [1.89] $\varnothing 60$ [2.36] 6x$\varnothing 6$ </p>	8.0010.2270.0000 <i>Scope of delivery:</i> - flange - 3 screws for encoder mounting <i>Connection to application:</i> - 6 screws (not supplied)
Angular flange 	 <p> $\varnothing 80$ [3.15] $\varnothing 48$ [1.89] $\varnothing 60$ [2.36] $\varnothing 7$ [0.28] $\varnothing 22$ [0.87] $\varnothing 36_{+0.07}^{-0.09}$ $\varnothing 60.4$ [2.38] 2.5 [0.1] 6 [0.24] 3x$\varnothing 6$ 45 [1.77] 80 [3.15] 60 [2.36] 40 [1.57] </p>	8.0010.2300.0000 <i>Scope of delivery:</i> - angular flange (aluminum) - 3 screws for encoder mounting <i>Connection to application:</i> - 2 screws (not supplied) <div> <div>1</div> <div>Countersunk DIN 74-Hm6</div> </div>

Accessories

Fixing components for shaft encoders

Details

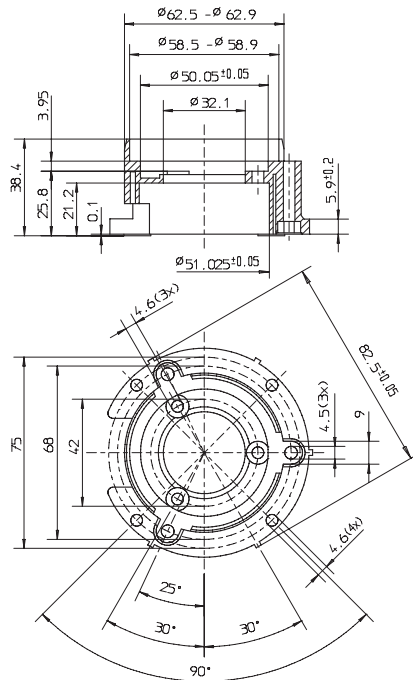
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set

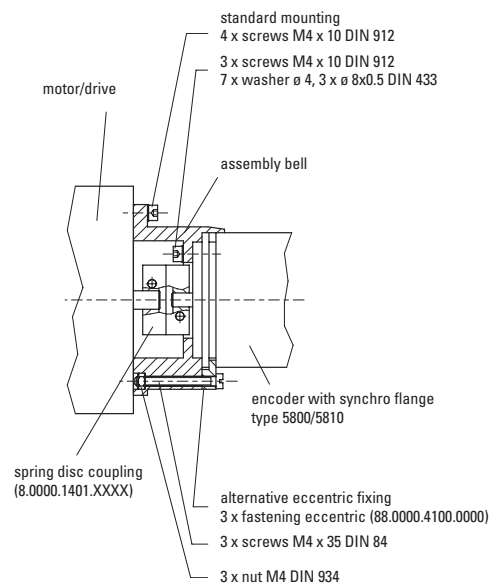


Scope of delivery:

- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 $\varnothing 4$ [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M 4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4

8.0000.4500.XXYY

XX = Coupling diameter
d1 in mm
YY = Coupling diameter
d2 in mm



Fixing components for shaft encoders


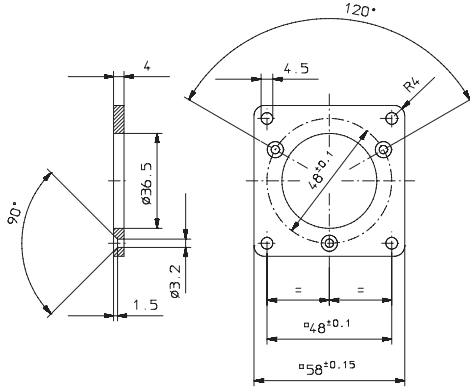
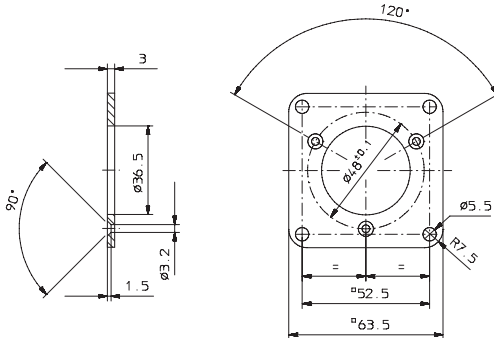
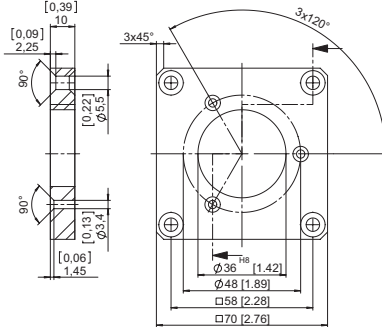
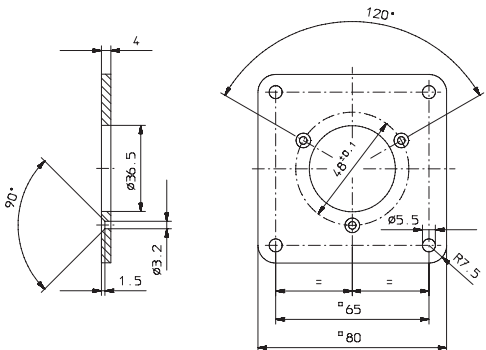
Details

[illegible]

Accessories

Fixing components for shaft encoders				Overview							
Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders			
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168	
	Flange, square Suitable for shaft encoders with clamping flange										
	□ 58.0 [2.28"], 4 [0.16"] thick	8.0010.2100.0000	675	X		X		X	X		
	□ 63.5 [2.5"], 3 [0.12"] thick	8.0010.2120.0000	675	X		X		X	X		
	□ 70.0 [2.76"], 10 [0.39"] thick	8.0010.2600.0000	675	X		X		X	X		
	□ 80.0 [3.15"], 4 [0.16"] thick	8.0010.2800.0000	675	X		X		X	X		
	Flange ø 65 mm [2.56"]	8.0010.2230.0000	676	X		X		X	X		
	With this adapter flange, Kübler encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]										
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000	676	X		X		X	X		
		8.0010.2170.0000			X		X			X	
	Flange, ø 58 mm [2.28"]	8.0010.2180.0000	676	X		X		X	X		
	Converts encoders with a clamping flange into synchro flange.										
	Flange, ø 90 mm [3.54"]	8.0010.2270.0000	677	X		X		X	X		
	Mechanically compatible with former encoder Type 9000										
	Angular flange	8.0010.2300.0000	677	X		X			X		
	80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]										
	Assembly bell	8.0000.4500.XXY	678	X		X		X	X		
	Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set										
	Fastening eccentrics	8.0010.4200.0000	679	see table page 679							
		8.0010.4100.0000									
	For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.										
	Robust bearing unit	8.0010.8200.000C	680	X		X		X	X		
	Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]										
	Bearing box	8.0010.8200.0004	681	X		X		X	X		


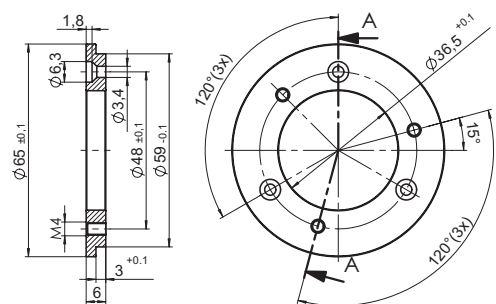

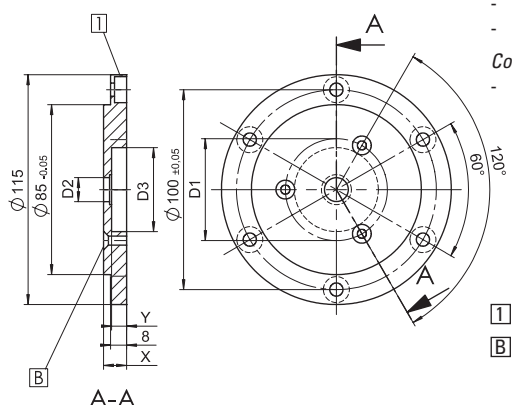

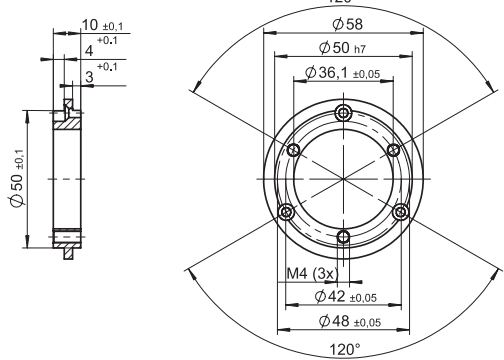
Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - flange (aluminum) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 4 screws (not supplied) <p>8.0010.2100.0000</p>
		<p>8.0010.2120.0000</p>
		<p>8.0010.2600.0000</p>
		<p>8.0010.2800.0000</p>


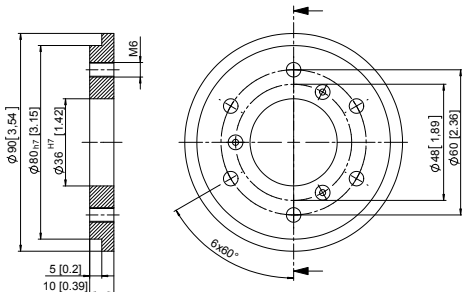

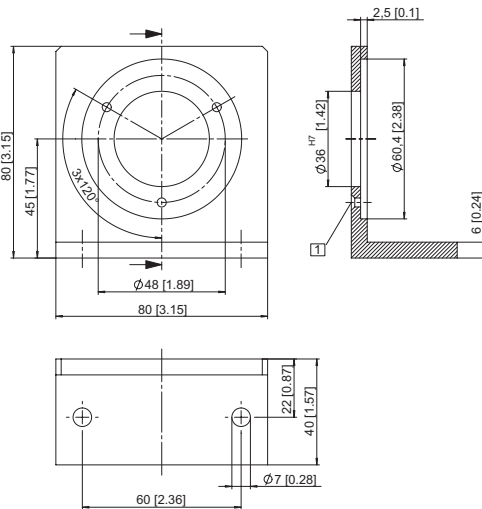
Accessories

Fixing components for shaft encoders

Details

Dimensions / Details		Dimensions in mm [inch]	Order no.																					
Flange, ø 65 [2.56] With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].		 	8.0010.2230.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					
Flange, ø 115 [4.53], Euroflange (Euro REO 444)		<table><tr><th>encoder type</th><th>D1</th><th>D2</th><th>D3</th><th>X</th><th>Y</th><th>B</th></tr><tr><td>580X/5000</td><td>48 [1.89]</td><td>36 [1.42]</td><td>58 [2.28]</td><td>11 [0.43]</td><td>1 [0.039]</td><td>DIN 74-BM3</td></tr><tr><td>70XX</td><td>51 [2.01]</td><td>12 [0.47]</td><td>42 [1.65]</td><td>11.5 [0.45]</td><td>7.5 [0.30]</td><td>DIN 74-BM4</td></tr></table>   <p>1 Countersunk DIN 74-Hm6 B See table</p>	encoder type	D1	D2	D3	X	Y	B	580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3	70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4	8.0010.2160.0000 8.0010.2170.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 6 screws (not supplied)
encoder type	D1	D2	D3	X	Y	B																		
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3																		
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4																		
Flange, ø 58 [2.28] Converts encoders with a clamping flange into synchro flange.		 	8.0010.2180.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, \varnothing 90 [3.54] Mechanically compatible with former encoder type 9000 	 <p> \varnothing 90 [3.54] \varnothing 80_{H7} [3.15] \varnothing 36_{H7} [1.42] 5 [0.2] 10 [0.39] M6 $6 \times 90^\circ$ \varnothing 48 [1.89] \varnothing 60 [2.36] </p>	8.0010.2270.0000 <i>Scope of delivery:</i> - flange - 3 screws for encoder mounting <i>Connection to application:</i> - 6 screws (not supplied)
Angular flange 	 <p> \varnothing 80 [3.15] \varnothing 48 [1.89] \varnothing 60 [2.36] \varnothing 36_{H7} [1.42] \varnothing 60.4 [2.38] 2.5 [0.1] 45 [1.77] 80 [3.15] 60 [2.36] 22 [0.87] 40 [1.57] 6 [0.24] 1 3 \times 120° \varnothing 7 [0.28] </p>	8.0010.2300.0000 <i>Scope of delivery:</i> - angular flange (aluminum) - 3 screws for encoder mounting <i>Connection to application:</i> - 2 screws (not supplied) <div> <div>1</div> <div>Countersunk DIN 74-Hm6</div> </div>

Fixing components for shaft encoders

Details

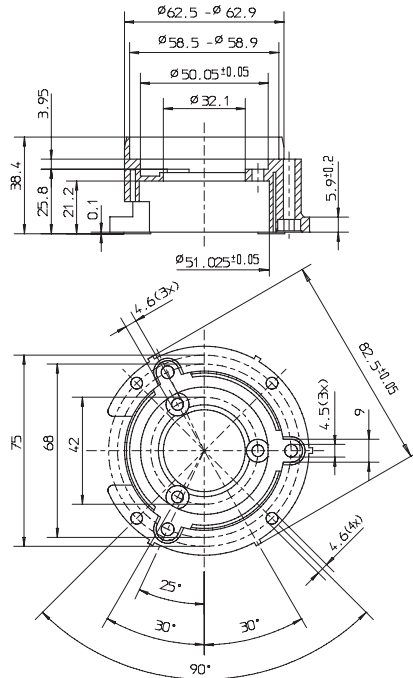
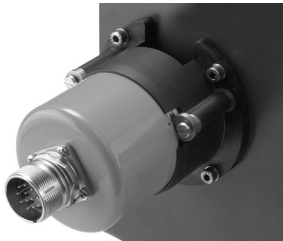
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set

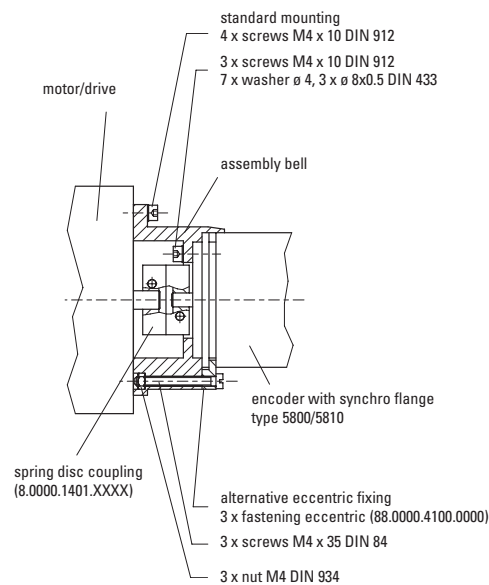


Scope of delivery:


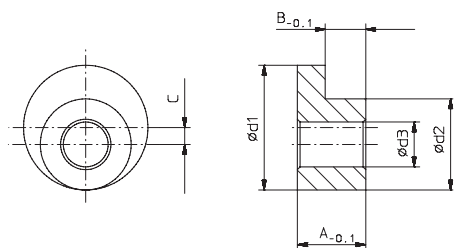
- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 $\varnothing 4$ [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4

8.0000.4500.XXYY






















XX = Coupling diameter
d1 in mm
YY = Coupling diameter
d2 in mm
























Accessories

Fixing components for shaft encoders							Details		
Dimensions / Details		Dimensions in mm [inch]					Order no.		
Fastening eccentrics for encoders with synchro flange		encoder type	D1	D2	D3	A	B	C	
<ul style="list-style-type: none">- Suitable for Kübler encoders with synchro flange- Material ACu Zn 39 Pb 3- Surface finish: galvanized Ni 		3610							8.0010.4200.0000
		3651	6.8	5	2.8	3.5	2.25	0.9	
		M3658	[0.27]	[0.20]	[0.11]	[0.14]	[0.09]	[0.035]	
		F3653 / F3658							
		F3663 / F3668							
		5000							8.0010.4100.0000
		5803 / 5804 / 5805							
		5853 / 5858	9.6	6.5	3.2	5,6	2.9	1.55	
		5863 / 5868	[0.38]	[0.26]	[0.13]	[0.22]	[0.11]	[0.06]	
		F5863 / F5868							
		5852							
		7053 / 7058							
		7063 / 7068							
		Scope of delivery. <ul style="list-style-type: none">- 3 eccentrics- 3 screws <p>(Use at least three fastening eccentrics to mount the encoder)</p>							

Cables and connectors

	<p>M12 Connector , Field-wireable connector</p> <p></p>	Male connector 5-pin	05.BMSWS 8151-8.5	Data sheet M12 pin, 5- pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Male connector 5-pin	05.BMSWS 8251-8.5	Data sheet M12 pin, angled, 5-pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Female connector 5-pin	05.BMWS 8151-8.5	Data sheet M12 socket, 5-pin, B- coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Female connector 5-pin	05.BMWS 8251-8.5	Data sheet M12 socket, angled, 5-pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p>Analog output  Push-Pull  HTL</p> <p>RS422  TTL  SinCos</p> <p>Open Collector  NPN </p> <p></p>	Female connector 8-pin	05.CMB 8181-0	Data sheet M12 socket, 8-pin, A-coded
	<p>M12 Connector , Field-wireable connector</p> <p>Analog output  Push-Pull  HTL</p> <p>RS422  TTL  SinCos</p>	Male connector 8-pin	05.CMBS 8181-0	Data sheet M12 pin, 8- pin, A-coded

Cables and connectors

	<p>M12 Connector , Field-wireable connector</p> <p></p>	Male connector 5-pin	05.BMSWS 8151-8.5	Data sheet M12 pin, 5- pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Male connector 5-pin	05.BMSWS 8251-8.5	Data sheet M12 pin, angled, 5-pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Female connector 5-pin	05.BMWS 8151-8.5	Data sheet M12 socket, 5-pin, B- coded
	<p>M12 Connector , Field-wireable connector</p> <p></p>	Female connector 5-pin	05.BMWS 8251-8.5	Data sheet M12 socket, angled, 5-pin, B-coded
	<p>M12 Connector , Field-wireable connector</p> <p>Analog output  Push-Pull  HTL</p> <p>RS422  TTL  SinCos</p> <p>Open Collector  NPN </p> <p></p>	Female connector 8-pin	05.CMB 8181-0	Data sheet M12 socket, 8-pin, A-coded
	<p>M12 Connector , Field-wireable connector</p> <p>Analog output  Push-Pull  HTL</p> <p>RS422  TTL  SinCos</p>	Male connector 8-pin	05.CMBS 8181-0	Data sheet M12 pin, 8- pin, A-coded

Accessories

Connection of motor and encoder	Couplings	Bellows and spring washer couplings
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Bellows couplings provide cost-effective connection of the motor and encoder. They are also able to correct any angular errors between the drive and encoder.

Spring washer couplings are used with high speeds.

Order code		8.0000 . 1 XXX . XX XX				
Couplings		Type	a	b	c	
a	Type of coupling					
102 = Bellows-type ø 19 mm [0.75"]						
202 = Bellows-type ø 15 mm [0.59"]						
301 = Spring washer type, ø 30 mm [1.18"], one-part						
401 = Spring washer type, ø 30 mm [1.18"], three part, plug-in						
502 = Bellows-type ø 25 mm [0.98"]						
b	Bore diameter d1 (see technical data)					
Note: for the bore diameter d1 = 1/4" please enter Code A2						
c	Bore diameter d2 (see technical data)					
Example: d1 = 10 mm [0.39"] and d2 = 12 mm [0.47"] Order no. = 8.0000.1X0X.1012						
Stock types 8.0000.1102.1010						

Technical data						
Type		8.0000.1102.XXXX	8.0000.1202.XXXX	8.0000.1301.XXXX	8.0000.1401.XXXX	8.0000.1502.XXXX
Maximum speed	min ⁻¹	10000	10000	12000	12000	10000
Maximum torque	Ncm	120	40	80	60	200
Maximum displacement	radial mm	± 0.3	± 0.25	± 0.4	± 0.3	± 0.35
	axial mm	± 0.5	± 0.45	± 0.4	± 0.4	± 0.54
	angular °	± 4°	± 4°	± 3°	± 2.5°	± 4°
Torsion spring stiffness	Nm/rad	150	85	150	30	183
Radial spring stiffness	N/mm	10	20	6	40	17.8
Moment of inertia	gcm ²	9.5	2.1	19	35	20
Max. tightening torque	Ncm	150	70	80	80	120
Working temperature		-30°C ... +120°C [-22°F ... +248°F]	-30°C ... +120°C [-22°F ... +248°F]	-30°C ... +120°C [-22°F ... +248°F]	-10°C ... +80°C [+14°F ... +176°F]	-30°C ... +120°C [-22°F ... +248°F]
Weight approx.		16 g [0.56 oz]	6.5 g [0.23 oz]	16 g [0.56 oz]	30 g [1.06 oz]	24 g [0.85 oz]
Material	flange bellows or spring washer/casing	Al, anodized stainless steel	Al, anodized stainless steel	Al, anodized stainless steel	Al, anodized PA 6.6 gf.	Al, anodized stainless steel
Diameter d/d1 from ... to	mm [inch]	3 ... 12 [0.12 ... 0.47]	3 ... 9 [0.12 ... 0.35]	3 ... 8 [0.12 ... 0.32]	4 ... 16 [0.16 ... 0.47]	3 ... 16 [0.12 ... 0.63]
Standard bore diameter	(d1 / d2) mm [inch]	12 / 12 [0.47 ... 0.47]	08 / 06 [0.32 ... 0.24]	06 / 06 [0.24 ... 0.24]	12 / 12 [0.47 ... 0.47]	15 / 12 [0.59 ... 0.47]
		12 / 10 [0.47 ... 0.39]	06 / 06 [0.24 ... 0.24]		12 / 10 [0.47 ... 0.39]	14 / 12 [0.55 ... 0.47]
		10 / 10 [0.39 ... 0.39]	06 / 04 [0.24 ... 0.16]		10 / 10 [0.39 ... 0.39]	14 / 10 [0.55 ... 0.39]
		10 / 08 [0.39 ... 0.32]	04 / 04 [0.16 ... 0.16]		10 / 06 [0.39 ... 0.24]	10 / 10 [0.39 ... 0.39]
		10 / 06 [0.39 ... 0.24]			06 / 06 [0.24 ... 0.24]	06 / 06 [0.24 ... 0.24]
		08 / 08 [0.32 ... 0.32]			1/4" / 10	
		06 / 06 [0.24 ... 0.24]			1/4" / 06	

Description and applications

Manufacturing and installation tolerances as well as the effects of temperature cause alignment errors between shafts in drive engineering which can sometimes lead to extreme overload on the bearings.

This may result in increased wear of the bearings and may lead to premature failure of the encoder. By using couplings, these alignment errors can be compensated, thereby reducing the load on the bearings to a minimum. A distinction should be made between three different kinds of alignment error: radial, angular and axial displacement.

Whilst with torsion-free but flexible shaft couplings, axial shaft displacements produce only static forces in the coupling, radial and angular displacements produce alternating stresses, restoring forces and moments which may have an impact on adjoining components (shaft bearings).

Depending on the type of coupling, particular attention should be paid to radial shaft displacement which should be kept to a minimum.

Connection of motor and encoder

Couplings

Bellows and spring washer couplings

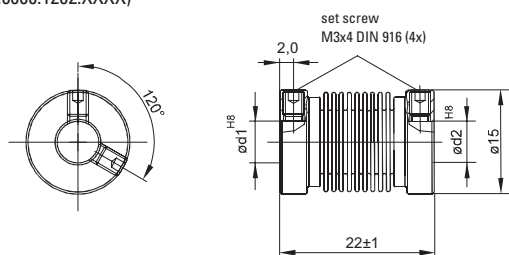
Metal bellows-type couplings (.1102, .1202 und .1502)

Metal bellows-type couplings are recommended as an inexpensive type of coupling. They are also suitable for compensating larger angle displacements.

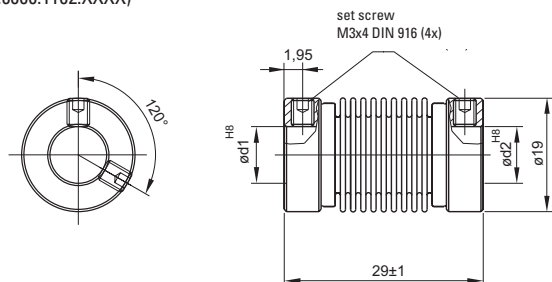
Dimensions

Dimensions
Dimensions in mm

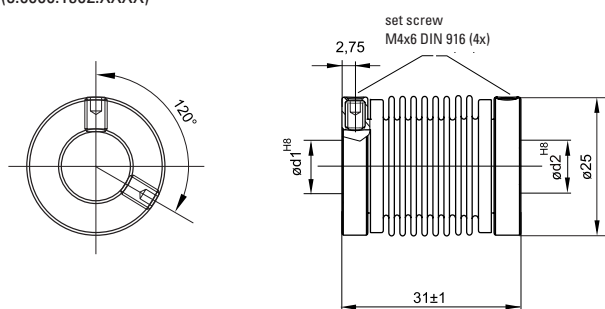
Bellows-type coupling ø 15 [0.59]
 (8.0000.1202.XXXX)



Bellows-type coupling ø 19 [0.75]
(8.0000.1102.XXXX)



Bellows-type coupling ø 25 [0.98]
 (8.0000.1502.XXXX)



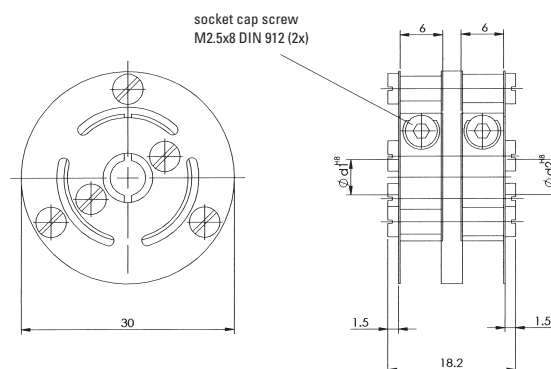
Installation instructions

1. Check shaft for displacement; see technical data for details.
2. Align and adjust coupling on shafts.
3. Tighten locking screws carefully. Avoid overtightening.
4. During installation protect the coupling from damage and from overbending.

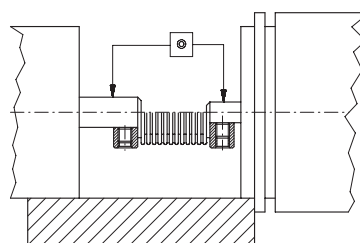
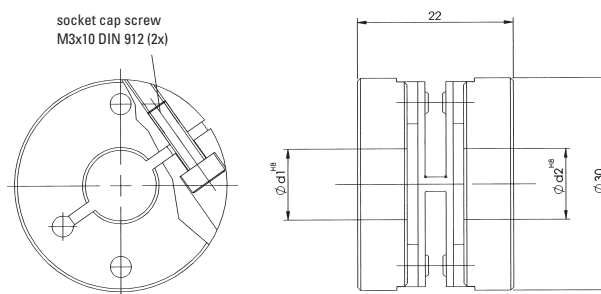
Spring washer-type couplings (.1301 und .1401)

Spring washer couplings are used primarily where high speeds and minimal axial errors occur. For applications requiring potential separation between the encoder and the drive, use the electrically isolating spring washer coupling.

Spring washer-type coupling, one-part
(8.0000.1301.XXXX)



Spring washer-type coupling, three part, plug-in
(8.0000.1401.XXXX)



Accessories

Connection of motor and encoder	Couplings	Bellows couplings (FS)
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Bellows couplings provide cost-effective connection of the motor and encoder. They are also able to correct any angular errors between the drive and encoder.

These bellows couplings (FS) are used for safe connection of applications and Sendix SIL encoders.

The safety-oriented bellows coupling has, in addition to the metallic bellows, internal claws that ensure the driving of the encoder in case of breakage of the bellows connection.

Order code Couplings	8.0000 Type	. 1	X	FS	. XX	XX
		a			b	c
a Type of coupling 5 = bellows coupling ø 25 mm [0.98"]						
b Bore diameter d1 (see technical data)						
c Bore diameter d2 (see technical data)						
Example: d1 = 10 mm and d2 = 12 mm order no. = 8.0000.15FS.1012						

Accessory	Order no.
Screw retention Loctite 243, 5 ml	8.0000.4G05.0000

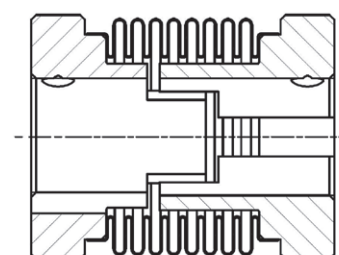
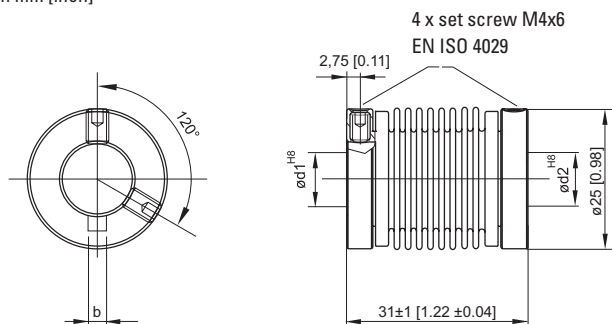
Technical data

Mechanical characteristics	
Max. speed	10000 min ⁻¹
Max. torque	200 Ncm
Max. shaft offset	radial ± 0.3 mm axial ± 0.45 mm angular ± 3°
Torsion spring stiffness	183 Nm/rad
Radial spring stiffness	17.8 N/mm
Moment of inertia	9.1 gcm ²
Headless set screw tightening torque	min. 80 Ncm max. 100 Ncm

Working temperature range	-30°C ... +120°C [-22 ... +248°F]
Weight approx.	54 g
Material	flange stainless steel 1.4104 bellows stainless steel 1.4571
Standard bore diameter	(d1 / d2) 10 / 10 mm [0.39 / 0.39"] 10 / 12 mm [0.39 / 0.47"] 12 / 12 mm [0.47 / 0.47"]
Insertion depth	min. 6 mm [0.24"] max. 11 mm [0.43"]

Dimensions

Dimensions in mm [inch]



Nut DIN 6885

nut width b	d1 / d2
3 [0.12]	10 [0.39]
4 [0.16]	12 [0.47]

Accessories

Connection of motor and encoder

Flexible shaft coupling

Double loop coupling



The safe, uncomplicated and economical solution, if drive shafts with angular, radial and/or axial displacement are to be friction-locked together.

Order no. size 1

Bore diameter both sides 6 mm [0.24"]

8.0000.1J01.0606

Order no. size 2

Bore diameter both sides 10 mm [0.39"]

8.0000.1K01.1010 ¹⁾

Bore diameter 11 mm [0.43"] and 12 mm [0.47"] with keyway

8.0000.1L01.1112

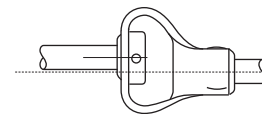
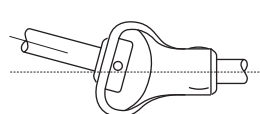
Technical data

	Size 1	Size 2
Max. speed	3000 min ⁻¹	3000 min ⁻¹
Max. torque	0.5 Nm	2.0 Nm
Max. offset of shafts	radial ± 2 mm	± 3 mm
	axial ± 2 mm	± 4 mm
	angular ± 10°	± 12°
Torsion spring stiffness	13 Nm/rad	28 Nm/rad
Radial spring stiffness	13 N/mm	7 N/mm
Moment of inertia	41 gcm ²	106 gcm ²
Max. clamping torque	100 Ncm	100 Ncm
Weight, approx.	33 g [1.16 oz]	85 g [3.35 oz]
Temperature range	-30°C ... + 80°C [-22°F ... +176°F]	
Material	flange	steel galvanized
	connecting element	Polyurethane

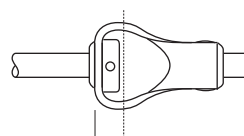
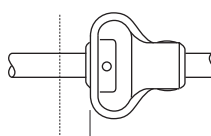
Functional principle

Compensation of an angular misalignment

Compensation of a radial misalignment



Compensation of a axial misalignment



1) Stock types

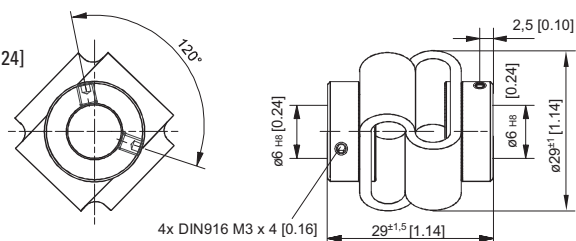
Accessories

Connection of motor and encoder	Flexible shaft coupling	Double loop coupling
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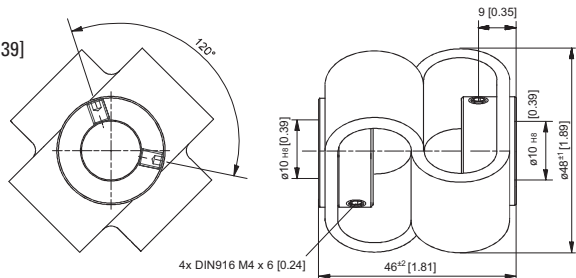
Dimensions

Dimensions in mm

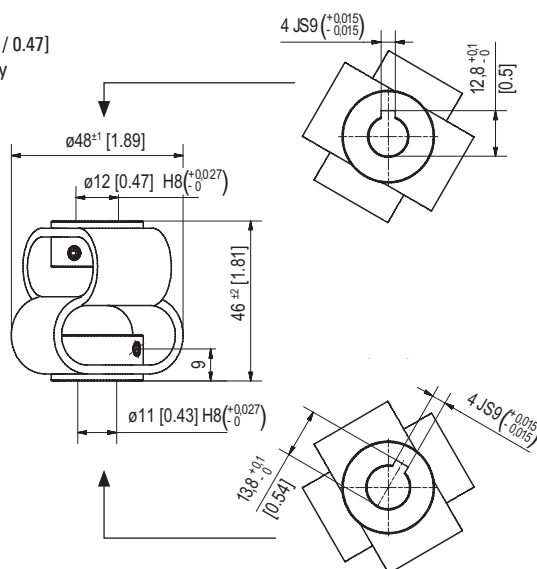
Size 1
6 / 6
[0.24 / 0.24]



Size 2
10 / 10
[0.39 / 0.39]




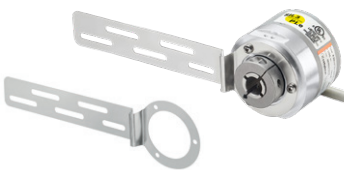

Size 2
11 / 12 [0.43 / 0.47]
with keyway










Accessories

Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview							
Figure		Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders		Absolute multiturn encoders			
						3620, 3720	KIH50, 5020, 5026	5834 Motor-Line	5823, 5824, 5825, 5834	3671, M3678, F3673, F3678	5873, 5878, 5870, 5872	5873 Motor-Line	F3683, F3688	M3681, M3683, M3688	5883, 5888, F5883, F5888
		Spring element, short For applications with limited axial play and low dynamics, and reduced mounting space	36XX 42 [1.65] M36XX 42 [1.65] F36XX 42 [1.65] 37XX 40 [1.57] 50XX 42 [1.65] 58XX 42 [1.65] F58XX 42 [1.65]	8.0010.4H00.0000 Connection to the application: cylindrical pin	4	X	X		X	X	X	X	X	X	X
		Spring element, long For applications with axial play and low dynamics	36XX 61,4 [2.42] M36XX 61,4 [2.42] F36XX 61,4 [2.42] 37XX 61,4 [2.42] 50XX 67,4 [2.65] 58XX 73,4 [2.89] F58XX 73,4 [2.89]	8.0010.4100.0000 Connection to the application: cylindrical pin	4	X	X		X	X	X	X	X	X	X
		Torque stop, short (flexible) For applications with axial and radial play, low dynamics	64.5 [2.54]	8.0010.40M0.0000 Connection to the application: 1 screw	4		X		X		X			X	X
		Torque stop, medium (flexible) For applications with axial and radial play for constant rotary movements	65 ... 91.5 [2.56 ... 3.60]	8.0010.40E0.0000 Connection to the application: 1 screw	4		X		X		X			X	X
		Torque stop, long (flexible) For applications with axial and radial play and low dynamics	80 ... 170 [3.15 ... 6.69]	8.0010.4R00.0000 Connection to the application: 1 screw	5		X		X		X			X	X
		Stator coupling, double-winged For applications with axial and radial play and high dynamics	46 [1.81]	8.0010.4C00.0000 Connection to the application: 2 screws	5	X				X					X
		Stator coupling, double-winged For applications with high demands for accuracy	63 [2.48]	8.0010.4D00.0000 Connection to the application: 2 screws	5		Flansch C + D	X	X		X	X		X	
		Stator coupling, for fixing to side of encoder For standard applications with axial and radial play, and high dynamics	65 [2.56]	8.0010.1602.0000 Connection to the application: 3 screws	6		Flansch C + D		X		X			X	X
		Stator coupling, for fixing to front of encoder For applications with axial and radial play and high dynamics	65 [2.56]	8.0010.40L0.0000 Connection to the application: 3 screws	6		X		X		X			X	X
		Spring tether element For applications with low axial and radial play and low dynamics	42 ... 84.5 [1.65 ... 3.33]	8.0010.40W0.0000 Connection to the application: 1 screw	6		X		X		X			X	X


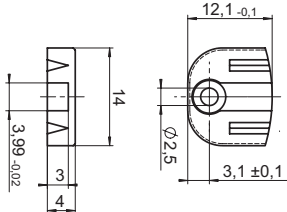

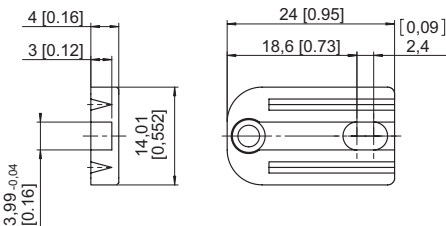

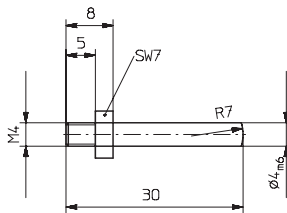
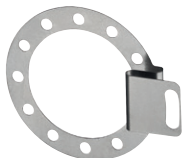
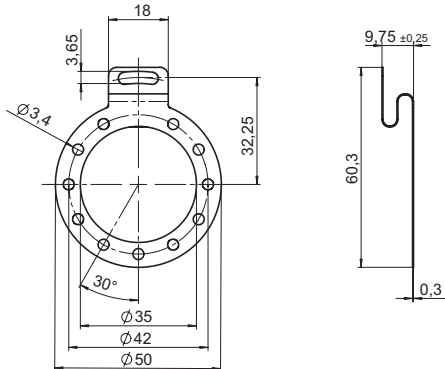

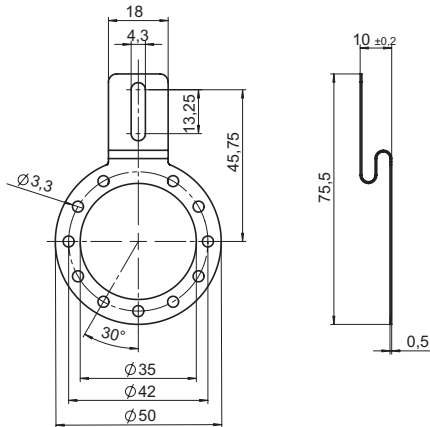
Accessories

Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview						
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders			Absolute multiturn encoders		
					5834FSx	5020	5823, 5824, 5825	5823, 5824, 5825	5873FSx	5873, 5878	5873 Motor-Line	5883FSx	5883, 5888, F5883, F5888,	F5883M, F5888M
	Stator coupling Designed for functional safety thanks to the 4-screw-principle.	63 [2.48]	8.0010.40B2.00FS <i>Connection to the application:</i> 4 screws	7	X	X	X	X	X	X	X	X	X	
	Torque stop, flexible Designed for functional safety. For applications with axial and radial play and low dynamics.	79 ... 285 [3.11 ... 11.22]	8.0010.4047.00FS <i>Connection to the application:</i> 1 screw	7	X	X	X		X	X		X	X	X
	Torque stop set, rigid Designed for functional safety. For applications with very low axial and radial play and low dynamics.	65 ... 287 mm [2.56 ... 11.30]	8.0010.4051.00FS <i>Connection to the application:</i> cylindrical pin	8	X	X	X		X	X			X	X

Accessories


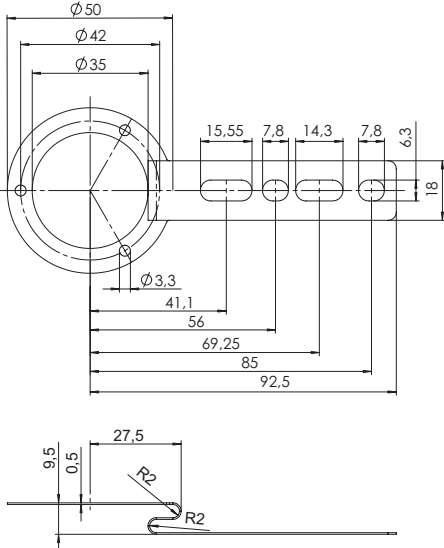

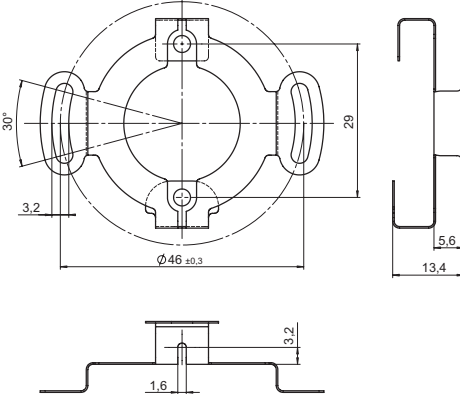

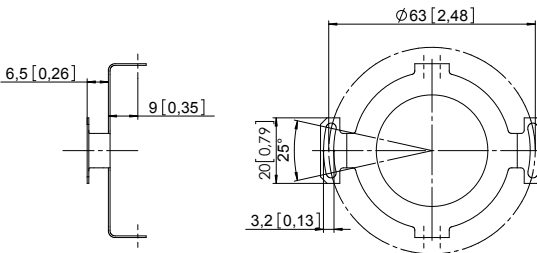
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview		
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	A020, A02H	H120
	Spring element, short For applications with reduced mounting space	76 [2.99]	8.0010.4J00.0000 Connection to the application: cylindrical pin	9	X	
	Spring element, long For applications with high axial play	110 [4.33]	8.0010.4K00.0000 Connection to the application: cylindrical pin	9	X	
	Torque stop, short For applications with axial play	149 [5.87]	8.0010.4T00.0000 Connection to the application: s. details	9	X	
	Torque stop, long For applications with fastening points located on variable pitch circle diameters	104 ... 206 [4.09 ... 8.11]	8.0010.4E00.0000 Connection to the application: 1 screw	10	X	
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S0.0000 8.0010.40T0.0000 8.0010.40U0.0000 Connection to the application: 1 screw	10	X	X
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S1.0000 8.0010.40T1.0000 8.0010.40U1.0000 Connection to the application: 1 screw	11		X
	Stator coupling For applications with axial and radial play and high dynamics	119 [4.69]	8.0010.40V0.0000 Connection to the application: 2 screws	11	X	X

Accessories


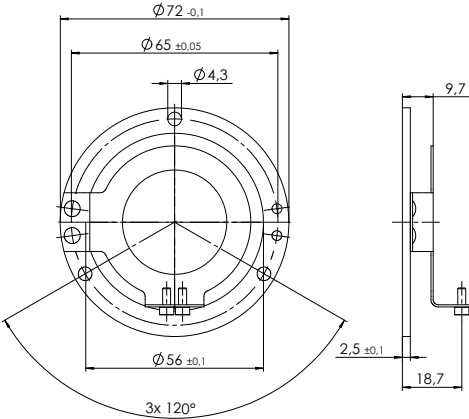

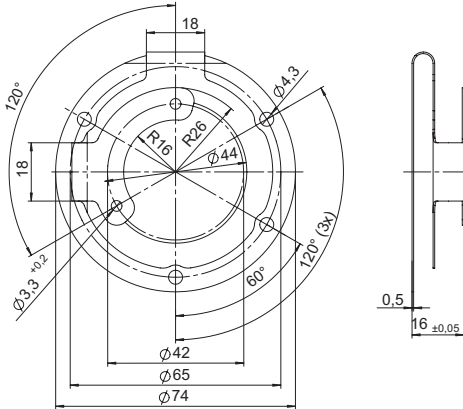


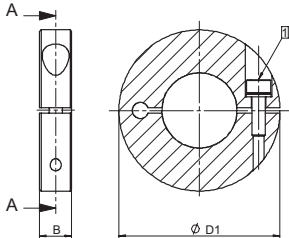
Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000 ¹⁾
Torque stop, short 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium 		<i>Scope of delivery:</i> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000 ¹⁾

1) Stock types


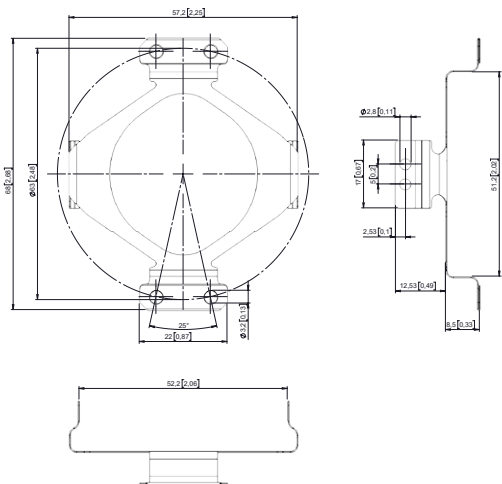
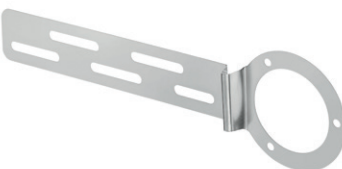
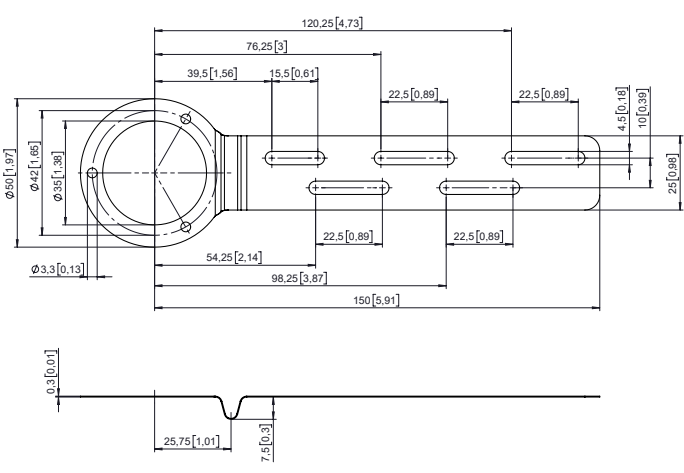
Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details			Order no.
Torque stop, long 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.4R00.0000
Stator coupling, double-winged for front fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 2 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 screws (not supplied) 	8.0010.4C00.0000
Stator coupling, double-winged for side fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 4 screws M2.5 x 6 [0.24] for fixing to the encoders <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 socket head screws M3 x 8 [0.32] with washer (supplied) 	8.0010.4D00.0000

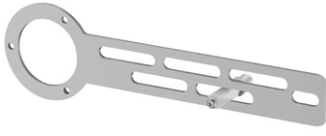
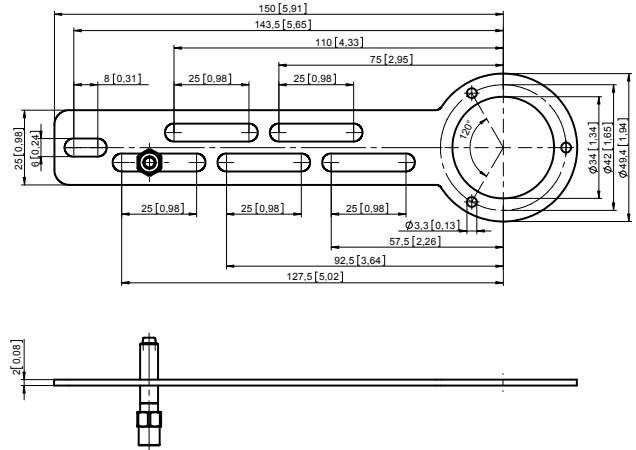

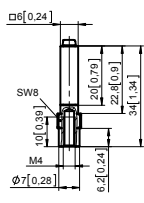
Accessories

Fixing components for hollow shaft encoders		For encoders up to ø 58 mm		Details																								
Dimensions / Details		Dimensions in mm [inch]		Order no.																								
Stator coupling for side fixing onto the encoder flange			<i>Scope of delivery:</i> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)		8.0010.1602.0000																							
Stator coupling for front fixing onto the encoder flange			<i>Scope of delivery:</i> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)		8.0010.40L0.0000																							
Spring tether element		<i>Scope of delivery:</i> <ul style="list-style-type: none">- spring tether element- 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 1 screw (not supplied)		8.0010.40W0.0000																								
Clamping ring Stainless steel, for high rotational speeds			<table><tr><th></th><th>for encoder</th><th>B</th><th>D1</th><th>for hollow shaft ø</th><th></th></tr><tr><td rowspan="2">582X</td><td></td><td>6 [0.236]</td><td>29 [1.14]</td><td>10 [0.39]</td><td>8.0000.4V00.0000</td></tr><tr><td></td><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td>8.0000.4W00.0000</td></tr><tr><td>5020</td><td></td><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td>8.0010.4W01.0000</td></tr></table>			for encoder	B	D1	for hollow shaft ø		582X		6 [0.236]	29 [1.14]	10 [0.39]	8.0000.4V00.0000		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0000.4W00.0000	5020		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0010.4W01.0000	1 screw DIN 912 A2 M2.5, max. tightening torque 0.45 Nm
				for encoder	B	D1	for hollow shaft ø																					
582X		6 [0.236]	29 [1.14]	10 [0.39]	8.0000.4V00.0000																							
		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0000.4W00.0000																							
5020		6.2 [0.244]	30 [1.18]	12 [0.47]	8.0010.4W01.0000																							


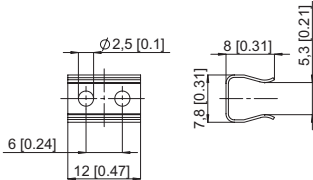

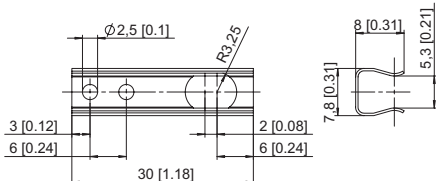

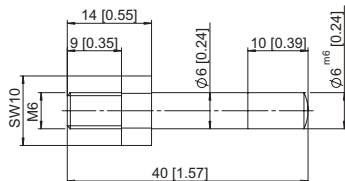

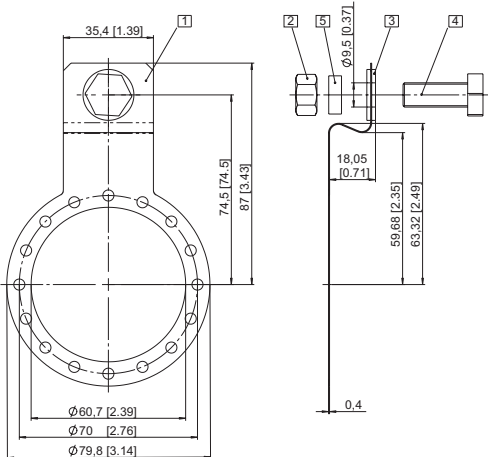
Accessories

Fixing components for hollow shaft encoders		For encoders up to \varnothing 58 mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Stator coupling 		8.0010.40B2.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 4 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 4 screws (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < \pm 0.25 mm - Radial offset < \pm 0.20 mm - Angular offset < 1° 	
Torque stop, flexible 		8.0010.4047.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < \pm 0.25 mm - Radial offset < \pm 0.20 mm - Angular offset < 1° 	

Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Torque stop set, rigid 		8.0010.4051.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 cylindrical pin 8.0010.4049.0075 (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < ± 0.25 mm - Radial offset < ± 0.20 mm - Angular offset < 1° 	
Cylindrical pin (replacement) 		8.0010.4049.0075	
		<p>suitable for:</p> <p>torque stop 8.0010.4051.00FS</p>	

Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm	Details
Dimensions / Details		Dimensions in mm [inch]	Order no.
Spring element, short 		<i>Scope of delivery:</i> - Spring element (stainless steel) - 2 screws for fixing to the encoder <i>Connection to application:</i> - Cylindrical pin (8.0010.4700.0003) (not supplied)	8.0010.4J00.0000
Spring element, long 		<i>Scope of delivery:</i> - Spring element (stainless steel) - 2 screws for fixing to the encoder <i>Connection to application:</i> - Cylindrical pin (8.0010.4700.0003) (not supplied)	8.0010.4K00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4J00.0000) and long (8.0010.4K00.0000)	8.0010.4700.0003
Torque stop, short 		<i>Scope of delivery:</i> 1 Fastening arm (stainless steel) - 3 screws for fixing to the encoder <i>Connection to application:</i> 2 Hexagonal nut 3/8 - 16 UNC 3 Washer (isolating) 4 Hexagonal screw 3/8 16 UNC x 1" 5 Washer D10.4 x 15 x 15 (supplied)	8.0010.4T00.0000 ¹⁾


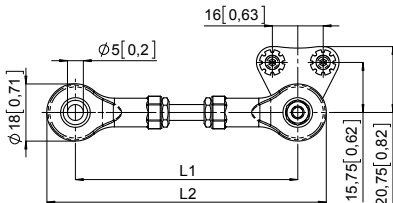
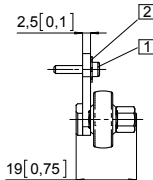

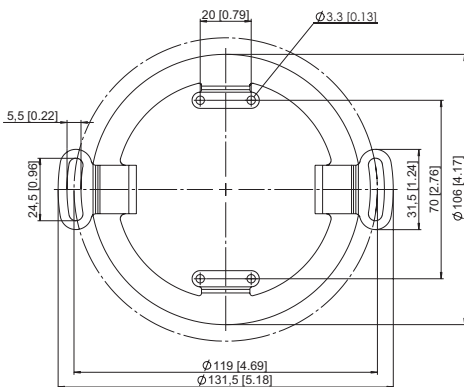
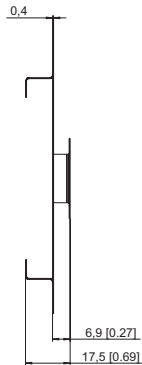
1) Stock types

Accessories




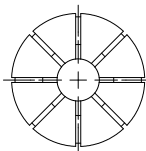
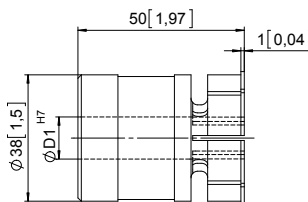
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Details	
Dimensions / Details		Dimensions in mm [inch]		Order no.	
Torque stop, long					

1) Stock types


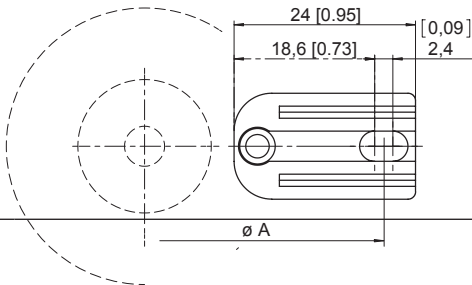
Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview
Dimensions / Details		Dimensions in mm [inch]		Order no.
Tether arm, long		Tether arm	L1	L2
		70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]
		100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]
		150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]
		<p>Scope of delivery:</p> <ul style="list-style-type: none">- Tether arm- For fixing to the encoder:<ul style="list-style-type: none">1 2 cap screws M2,5 x 12 [0.47]2 2 lock washers <p>Connection to application:</p> <ul style="list-style-type: none">- 1 screw (not supplied)		
				
Stator coupling				
		<p>Scope of delivery:</p> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 4 screws for fixing to the encoder <p>Connection to application:</p> <ul style="list-style-type: none">- 2 screws (not supplied)		
				8.0010.40V0.0000











Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm	Overview																												
Dimensions / Details	Dimensions in mm [inch]	Order no.																													
Protective cover 		<p>For applications with a very high degree of pollution, Kübler now offers a protective cover for</p> <ul style="list-style-type: none">• Improved reliability• Extension of the service life of the encoder <p>Scope of delivery:</p> <ul style="list-style-type: none">• Protective cover• Fastening arm (8.0010.4T00.0000)• 3 screws for fixing to the encoder	8.0010.40Y0.0001																												
Tapered shaft mounting kit for A02H with hollow shaft, ø 38 mm [1.50"] 		<p>For use in upgrading for tapered shaft mounting. Tapered shafts are used for high-precision direct coupling.</p> <p>An isolation insert is also included in the mounting kit; this reliably protects the encoder from shaft currents.</p> <p>Included in the set:</p> <ul style="list-style-type: none">• Insert for cone blind hole, cone 1:10, 17 mm [0.67"] length• Isolation insert• Allen screw for central fixing	8.0010.4028.0000																												
Isolation insert for hollow shaft, ø 38 mm [1.50"] Temperature range -40°C ... +115°C [-40°F ... +239°F]   		<p>ø D1:</p> <table><tr><td>12 mm [0.47"]</td><td>8.0010.4091.0000</td></tr><tr><td>14 mm [0.55"]</td><td>8.0010.4027.0000</td></tr><tr><td>15 mm [0.59"]</td><td>8.0010.4038.0000</td></tr><tr><td>16 mm [0.63"]</td><td>8.0010.4019.0000</td></tr><tr><td>18 mm [0.71"]</td><td>8.0010.4080.0000</td></tr><tr><td>20 mm [0.79"]</td><td>8.0010.4011.0000</td></tr><tr><td>25 mm [0.98"]</td><td>8.0010.4012.0000</td></tr><tr><td>30 mm [1.18"]</td><td>8.0010.4016.0000</td></tr><tr><td>32 mm [1.26"]</td><td>8.0010.4015.0000</td></tr><tr><td>1/2"</td><td>8.0010.4013.0000</td></tr><tr><td>5/8"</td><td>8.0010.4070.0000</td></tr><tr><td>3/4"</td><td>8.0010.4090.0000</td></tr><tr><td>1"</td><td>8.0010.4050.0000</td></tr><tr><td>1 1/4"</td><td>8.0010.4060.0000</td></tr></table>	12 mm [0.47"]	8.0010.4091.0000	14 mm [0.55"]	8.0010.4027.0000	15 mm [0.59"]	8.0010.4038.0000	16 mm [0.63"]	8.0010.4019.0000	18 mm [0.71"]	8.0010.4080.0000	20 mm [0.79"]	8.0010.4011.0000	25 mm [0.98"]	8.0010.4012.0000	30 mm [1.18"]	8.0010.4016.0000	32 mm [1.26"]	8.0010.4015.0000	1/2"	8.0010.4013.0000	5/8"	8.0010.4070.0000	3/4"	8.0010.4090.0000	1"	8.0010.4050.0000	1 1/4"	8.0010.4060.0000	
12 mm [0.47"]	8.0010.4091.0000																														
14 mm [0.55"]	8.0010.4027.0000																														
15 mm [0.59"]	8.0010.4038.0000																														
16 mm [0.63"]	8.0010.4019.0000																														
18 mm [0.71"]	8.0010.4080.0000																														
20 mm [0.79"]	8.0010.4011.0000																														
25 mm [0.98"]	8.0010.4012.0000																														
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32 mm [1.26"]	8.0010.4015.0000																														
1/2"	8.0010.4013.0000																														
5/8"	8.0010.4070.0000																														
3/4"	8.0010.4090.0000																														
1"	8.0010.4050.0000																														
1 1/4"	8.0010.4060.0000																														
Isolation insert for hollow shaft, ø 42 mm [1.65"]	<p>external diameter 42 mm [1.65"] / internal diameter 38 mm [1.50"]</p> <p>external diameter 42 mm [1.65"] / internal diameter 12 mm [0.47"]</p>	8.0010.4017.0000 8.0010.4029.0000																													


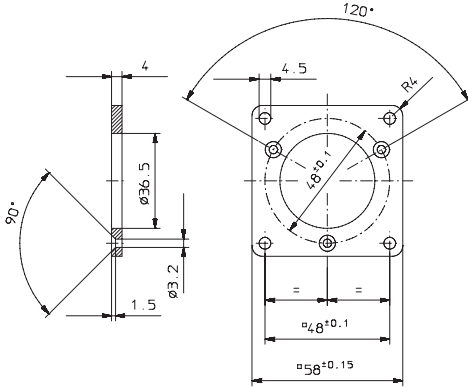
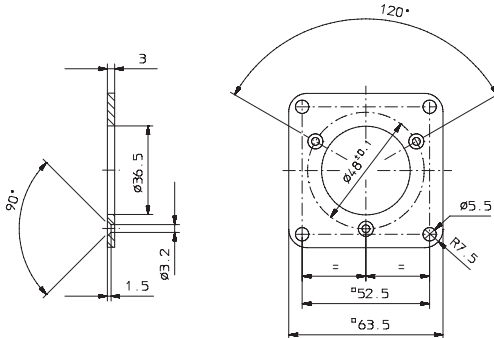
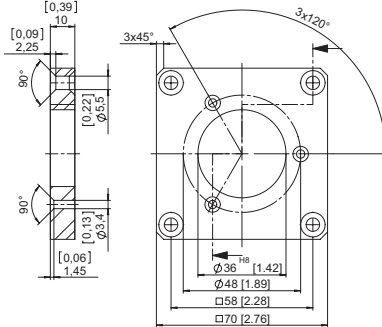
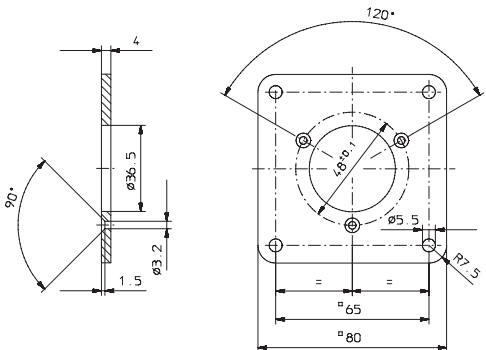
Accessories

Fixing components for hollow shaft encoders		For encoders up to \varnothing 58 mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000
Torque stop, short		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000

Accessories

Fixing components for shaft encoders				Overview							
Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders			
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168	
	Flange, square Suitable for shaft encoders with clamping flange										
	<input type="checkbox"/> 58.0 [2.28"], 4 [0.16"] thick	8.0010.2100.0000	675	X		X		X	X		
	<input type="checkbox"/> 63.5 [2.5"], 3 [0.12"] thick	8.0010.2120.0000	675	X		X		X	X		
	<input type="checkbox"/> 70.0 [2.76"], 10 [0.39"] thick	8.0010.2600.0000	675	X		X		X	X		
	<input type="checkbox"/> 80.0 [3.15"], 4 [0.16"] thick	8.0010.2800.0000	675	X		X		X	X		
	Flange ø 65 mm [2.56"]	8.0010.2230.0000	676	X		X		X	X		
	With this adapter flange, Kübler encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]										
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000	676	X		X		X	X		
		8.0010.2170.0000			X		X			X	
	Flange, ø 58 mm [2.28"]	8.0010.2180.0000	676	X		X		X	X		
	Converts encoders with a clamping flange into synchro flange.										
	Flange, ø 90 mm [3.54"]	8.0010.2270.0000	677	X		X		X	X		
	Mechanically compatible with former encoder Type 9000										
	Angular flange	8.0010.2300.0000	677	X		X			X		
	80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]										
	Assembly bell	8.0000.4500.XXY Y	678	X		X		X	X		
	Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set										
	Fastening eccentrics	8.0010.4200.0000	679	see table page 679							
	For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.	8.0010.4100.0000									
	Robust bearing unit	8.0010.8200.000C	680	X		X		X	X		
	Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]										
	Bearing box	8.0010.8200.0004	681	X		X		X	X		

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		Scope of delivery: - flange (aluminum) - 3 screws for fixing to the encoder Connection to application: - 4 screws (not supplied)
		8.0010.2100.0000
		8.0010.2120.0000
		8.0010.2600.0000
		8.0010.2800.0000

Accessories

Fixing components for shaft encoders

Details

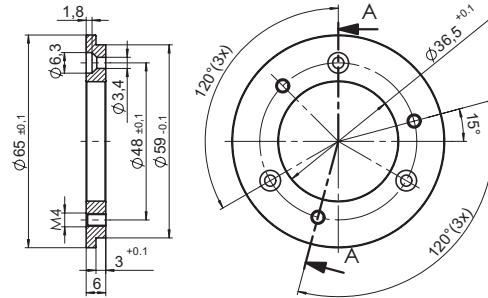
Dimensions / Details

Dimensions in mm [inch]

Order no.

Flange, ø 65 [2.56]

With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].



Scope of delivery:

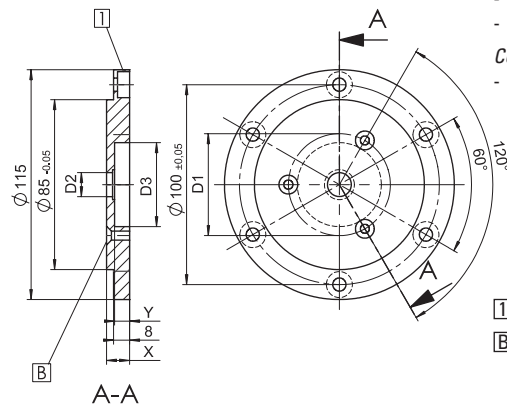
- flange (aluminum)
- 3 screws for fixing to the encoder

Connection to application:

- 3 screws (not supplied)

8.0010.2230.0000

Flange, ø 115 [4.53], Euroflange (Euro REO 444)



Scope of delivery:

- flange (aluminum)
- 3 screws for encoder mounting

Connection to application:

- 6 screws (not supplied)

1 Countersunk DIN 74-Hm6

B See table

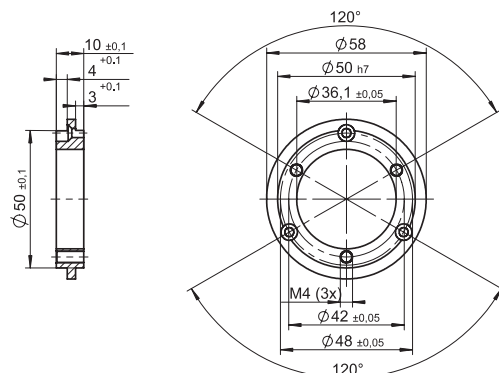
encoder type	D1	D2	D3	X	Y	B
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4

8.0010.2160.0000

8.0010.2170.0000

Flange, ø 58 [2.28]

Converts encoders with a clamping flange into synchro flange.



Scope of delivery:


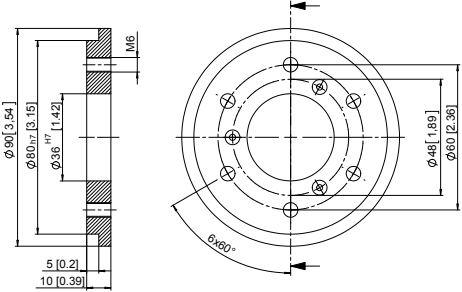

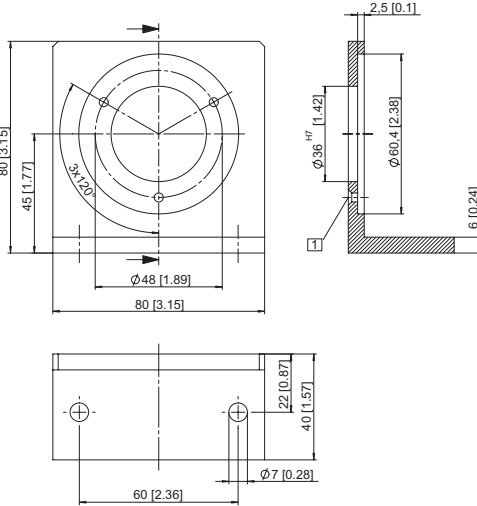
- flange (aluminum)
- 3 screws for encoder mounting

Connection to application:

- 3 screws (not supplied)

8.0010.2180.0000

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, $\varnothing 90$ [3.54] Mechanically compatible with former encoder type 9000 		8.0010.2270.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none"> - flange - 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none"> - 6 screws (not supplied)
Angular flange 		8.0010.2300.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none"> - angular flange (aluminum) - 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none"> - 2 screws (not supplied) <p>1 Countersunk DIN 74-Hm6</p>

Fixing components for shaft encoders

Details

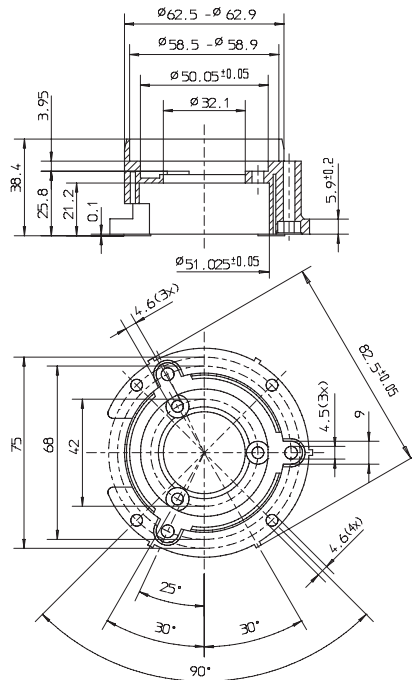
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set

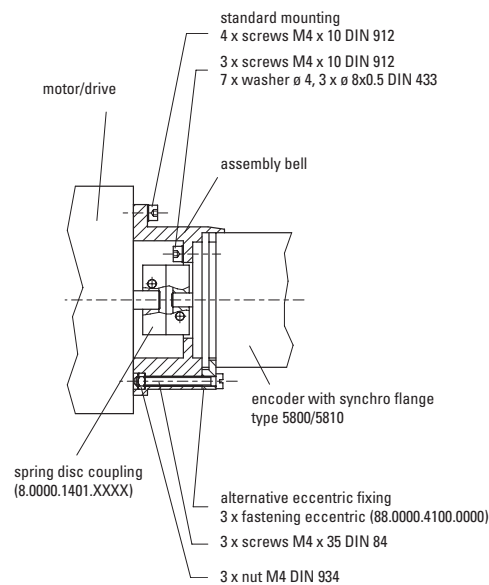


Scope of delivery:


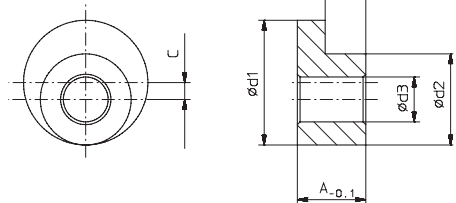
- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 $\varnothing 4$ [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4

8.0000.4500.XXYY

XX = Coupling diameter
d1 in mm
YY = Coupling diameter
d2 in mm



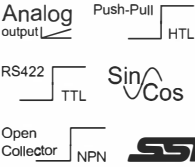
Accessories

Fixing components for shaft encoders							Details		
Dimensions / Details		Dimensions in mm [inch]					Order no.		
Fastening eccentrics for encoders with synchro flange <ul style="list-style-type: none">- Suitable for Kübler encoders with synchro flange- Material ACu Zn 39 Pb 3- Surface finish: galvanized Ni		encoder type	D1	D2	D3	A	B	C	
		3610							8.0010.4200.0000
		3651							
		M3658	6.8	5	2.8	3.5	2.25	0.9	
		F3653 / F3658	[0.27]	[0.20]	[0.11]	[0.14]	[0.09]	[0.035]	
		F3663 / F3668							
		5000							8.0010.4100.0000
		5803 / 5804 / 5805							
		5853 / 5858	9.6	6.5	3.2	5,6	2.9	1.55	
		5863 / 5868	[0.38]	[0.26]	[0.13]	[0.22]	[0.11]	[0.06]	
		F5863 / F5868							
		5852							
		7053 / 7058							
		7063 / 7068							
		Scope of delivery. <ul style="list-style-type: none">- 3 eccentrics- 3 screws <p>(Use at least three fastening eccentrics to mount the encoder)</p>							

Cables and connectors



M12 Connector with
cable ,
Preassembled cable set



Female
connector 8-pin
PVC Ø 6,7 mm
± 0,2 mm
8 x 0,25 mm²

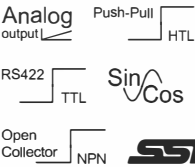
05.00.6041.8211.XXXM



Data sheet
M12 cordset,
PVC, socket,
8-pin, A-
coded, open
end



M12 Connector with
cable ,
Preassembled cable set



Female
connector 8-pin
PVC Ø 6,7 mm
± 0,2 mm
8 x 0,25 mm²

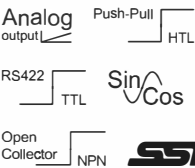
05.00.6041.8311.XXXM



Data sheet
M12 cordset,
PVC, female
8-pin, A-
coded,
angled, open
end



M12 Connector with
cable ,
Preassembled cable set



Female
connector 8-pin
PUR Ø 6,3 mm
± 0,2 mm
8 x 0,25 mm²

05.00.6051.8211.XXXM



Data sheet
M12 cordset,
PUR, socket,
8-pin, A-
coded, open
end



M12 Connector with
cable ,
05.00.6051.8284.XXXM
Preassembled cable set

Analog output Push-Pull HTL
RS422 TTL Open Collector NPN



Female
connector 8-pin
↓
Male connector
8-pin PUR Ø
6,3 mm ± 0,2
mm
8 x 0,25 mm²

05.00.6051.8284.XXXM



Data sheet
M12 cordset,
PUR, socket
8-pin, A-coded,
+ pin



M12 Connector with
cable ,
Preassembled cable set

Analog output Push-Pull HTL
RS422 TTL SinCos SSI



Female
connector 8-pin
PUR Ø 6,3 mm
± 0,2 mm
8 x 0,25 mm²

05.00.6051.8311.XXXM



Data sheet
M12 cordset,
PUR, socket,
angled, 8-pin,
A-coded,
open end



M12 Connector with
cable ,
Preassembled cable set

Analog output Push-Pull HTL
RS422 TTL SinCos
Open Collector NPN SSI



Female
connector 8-pin
PUR Ø 6,3 mm
± 0,2 mm
8 x 0,25 mm²

05.00.6051.F211.XXXM



Data sheet
M12 cordset,
PUR, socket,
V4A, 8-pin, A-
coded, open
end



M12 Connector with
cable ,
Preassembled cable set

Analog output Push-Pull HTL
RS422 TTL SinCos
Open Collector NPN SSI



Female
connector 8-pin
PUR Ø 6,2 mm
± 0,2 mm
4 x 2 x 0,25
mm²

05.00.60E1.8211.XXXM



Data sheet
M12 cordset,
PUR, socket,
8-pin, A-
coded, open
end



M12 Connector , Field-wireable connector

Female
connector 8-pin

05.CMB 8181-0

Data sheet
M12 socket,
8-pin, A-coded

Analog output Push-Pull HTL

RS422 TTL Sin Cos

Open Collector NPN



M12 Connector with cable , Preassembled cable set

Female
connector 8-pin
PVC Ø 7,2 mm
± 0,2 mm
8 x 0,205 mm²

**05.E-WKC 8T-
PX3-930-XXXX**

Data sheet
M12 cordset,
PVC, socket,
8-pin, A-
coded,
angled, with
integrated
control LEDs,
open end

Analog output Push-Pull HTL

RS422 TTL Sin Cos

Open Collector NPN



M12 Connector , for the Ex-area Field-wireable connector

Female
connector 8-pin

8.0000.5136.0000.Ex

Data sheet
M12 socket,
Ex 1/21 + Ex
2/22, 8-pin, A-
coded

Analog output Push-Pull HTL

RS422 TTL Sin Cos

Open Collector NPN



M12 Connector , Stainless steel V4A Field-wireable connector

Female
connector 8-pin

8.0000.5136.0000.V4A

Data sheet
M12 socket,
stainless steel
V4A, 8-pin, A-
coded

Analog output Push-Pull HTL

RS422 TTL Sin Cos

Open Collector NPN



Cable Connector with cable , Printed circuit board connector Preassembled cable set

Male connector
12-pin PVC Ø
7,0 mm ± 0,3
mm
16 x 0,14 mm²

8.0000.6D91.XXXX.0097

Data sheet
PCB
connector,
PVC, socket,
12-pin, open
end

Sin Cos

RS422


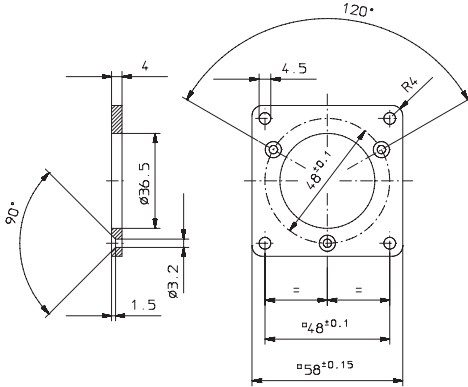
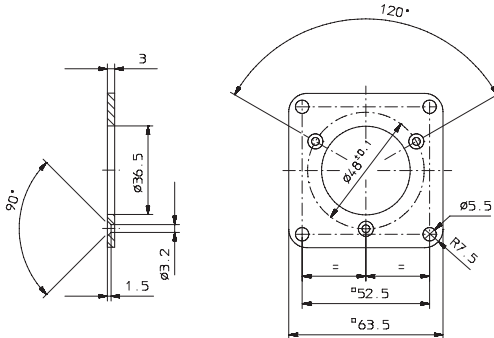
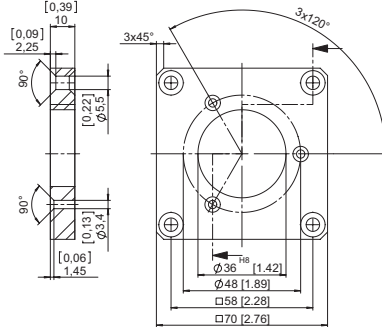
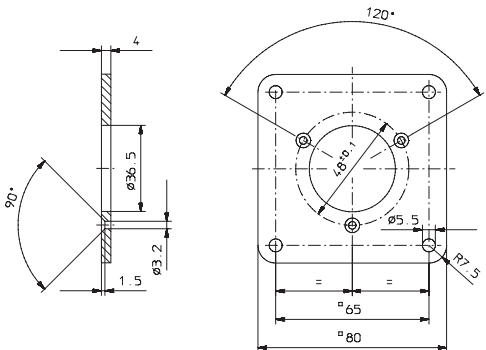
Sin Cos RS422



Accessories

Fixing components for shaft encoders				Overview							
Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders			
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168	
	Flange, square Suitable for shaft encoders with clamping flange										
	□ 58.0 [2.28"], 4 [0.16"] thick	8.0010.2100.0000	675	X		X		X	X		
	□ 63.5 [2.5"], 3 [0.12"] thick	8.0010.2120.0000	675	X		X		X	X		
	□ 70.0 [2.76"], 10 [0.39"] thick	8.0010.2600.0000	675	X		X		X	X		
	□ 80.0 [3.15"], 4 [0.16"] thick	8.0010.2800.0000	675	X		X		X	X		
	Flange ø 65 mm [2.56"]	8.0010.2230.0000	676	X		X		X	X		
	With this adapter flange, Kübler encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]										
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000	676	X		X		X	X		
		8.0010.2170.0000			X		X			X	
	Flange, ø 58 mm [2.28"]	8.0010.2180.0000	676	X		X		X	X		
	Converts encoders with a clamping flange into synchro flange.										
	Flange, ø 90 mm [3.54"]	8.0010.2270.0000	677	X		X		X	X		
	Mechanically compatible with former encoder Type 9000										
	Angular flange	8.0010.2300.0000	677	X		X			X		
	80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]										
	Assembly bell	8.0000.4500.XXYY	678	X		X		X	X		
	Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set										
	Fastening eccentrics	8.0010.4200.0000	679	see table page 679							
		8.0010.4100.0000									
	For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.										
	Robust bearing unit	8.0010.8200.000C	680	X		X		X	X		
	Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]										
	Bearing box	8.0010.8200.0004	681	X		X		X	X		


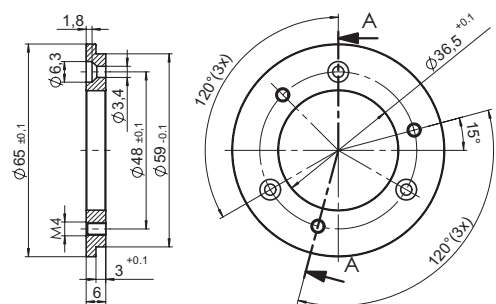

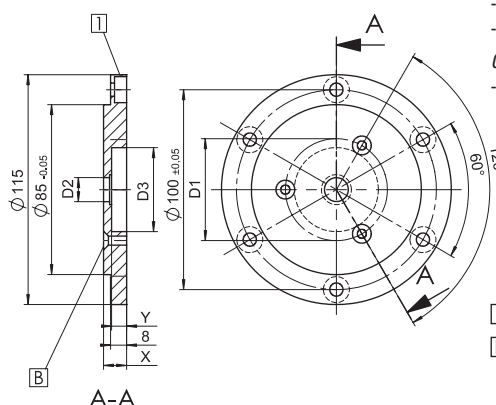

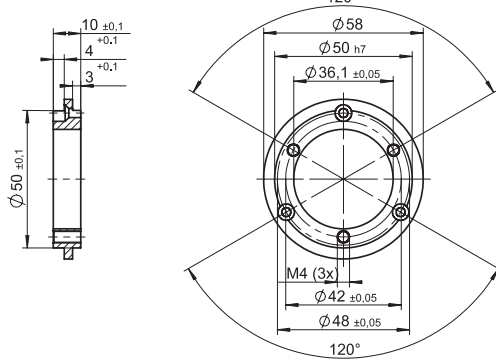
Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		<i>Scope of delivery:</i> - flange (aluminum) - 3 screws for fixing to the encoder <i>Connection to application:</i> - 4 screws (not supplied)
		8.0010.2100.0000
		8.0010.2120.0000
		8.0010.2600.0000
		8.0010.2800.0000


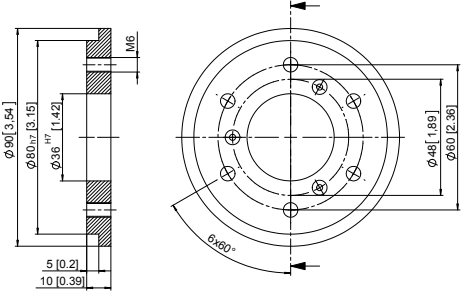

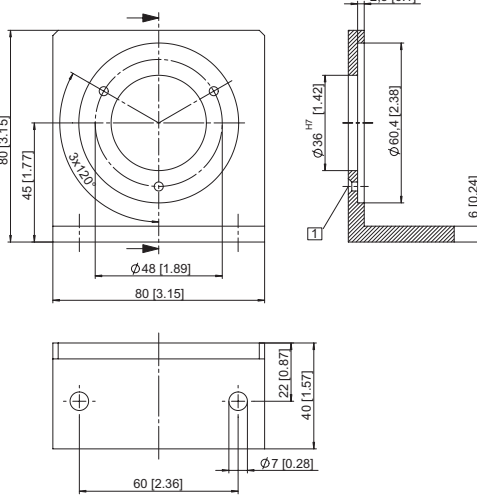
Accessories

Fixing components for shaft encoders

Details

Dimensions / Details		Dimensions in mm [inch]	Order no.																					
Flange, ø 65 [2.56] With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].		 	8.0010.2230.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					
Flange, ø 115 [4.53], Euroflange (Euro REO 444)		<table><tr><th>encoder type</th><th>D1</th><th>D2</th><th>D3</th><th>X</th><th>Y</th><th>B</th></tr><tr><td>580X/5000</td><td>48 [1.89]</td><td>36 [1.42]</td><td>58 [2.28]</td><td>11 [0.43]</td><td>1 [0.039]</td><td>DIN 74-BM3</td></tr><tr><td>70XX</td><td>51 [2.01]</td><td>12 [0.47]</td><td>42 [1.65]</td><td>11.5 [0.45]</td><td>7.5 [0.30]</td><td>DIN 74-BM4</td></tr></table>   <p>1 Countersunk DIN 74-Hm6 B See table</p>	encoder type	D1	D2	D3	X	Y	B	580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3	70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4	8.0010.2160.0000 8.0010.2170.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 6 screws (not supplied)
encoder type	D1	D2	D3	X	Y	B																		
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3																		
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4																		
Flange, ø 58 [2.28] Converts encoders with a clamping flange into synchro flange.		 	8.0010.2180.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
<p>Flange, $\varnothing 90$ [3.54]</p> <p>Mechanically compatible with former encoder type 9000</p> 	 <p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - flange - 3 screws for encoder mounting <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 6 screws (not supplied) 	<p>8.0010.2270.0000</p>
<p>Angular flange</p> 	 <p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - angular flange (aluminum) - 3 screws for encoder mounting <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 screws (not supplied) <p>1 Countersunk DIN 74-Hm6</p>	<p>8.0010.2300.0000</p>

Fixing components for shaft encoders

Details

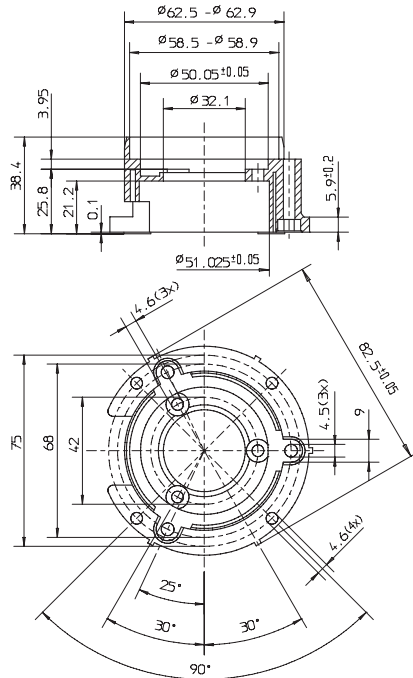
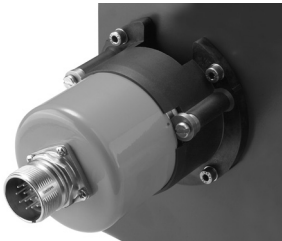
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set



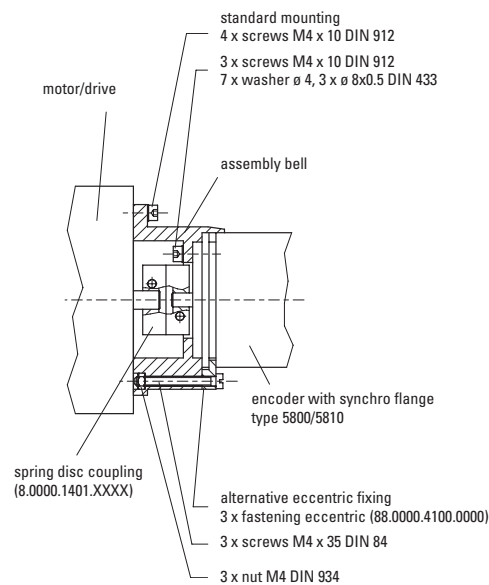
Scope of delivery:

- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 ø 4 [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M 4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4


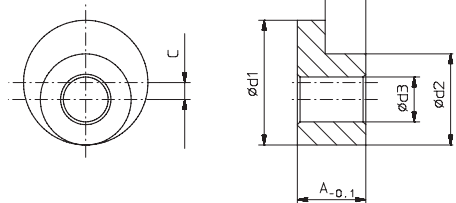
8.0000.4500.XXYY

XX = Coupling diameter
d1 in mm











YY = Coupling diameter
d2 in mm




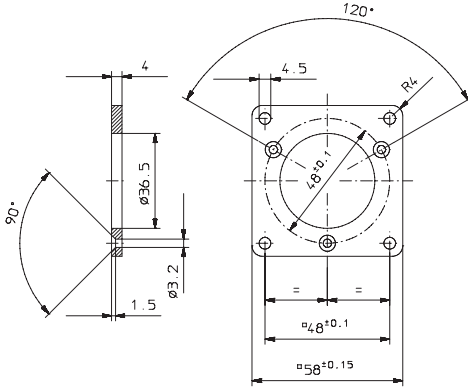
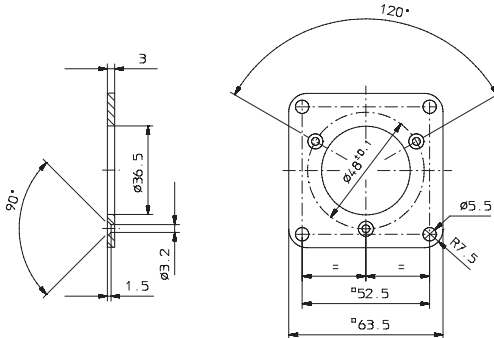
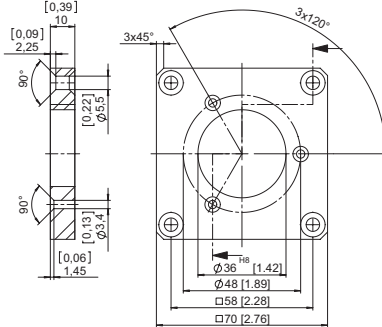
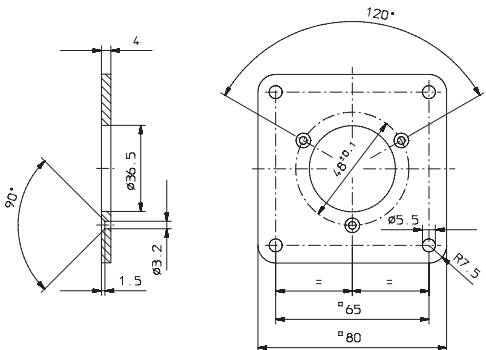
Accessories

Fixing components for shaft encoders							Details		
Dimensions / Details		Dimensions in mm [inch]					Order no.		
Fastening eccentrics for encoders with synchro flange <ul style="list-style-type: none">- Suitable for Kübler encoders with synchro flange- Material ACu Zn 39 Pb 3- Surface finish: galvanized Ni		encoder type	D1	D2	D3	A	B	C	
		3610							8.0010.4200.0000
		3651							
		M3658	6.8	5	2.8	3.5	2.25	0.9	
		F3653 / F3658	[0.27]	[0.20]	[0.11]	[0.14]	[0.09]	[0.035]	
		F3663 / F3668							
		5000							8.0010.4100.0000
		5803 / 5804 / 5805							
		5853 / 5858	9.6	6.5	3.2	5,6	2.9	1.55	
		5863 / 5868	[0.38]	[0.26]	[0.13]	[0.22]	[0.11]	[0.06]	
		F5863 / F5868							
		5852							
		7053 / 7058							
		7063 / 7068							
		Scope of delivery. <ul style="list-style-type: none">- 3 eccentrics- 3 screws <p>(Use at least three fastening eccentrics to mount the encoder)</p>							

Accessories

Fixing components for shaft encoders				Overview							
Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders			
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168	
	Flange, square Suitable for shaft encoders with clamping flange										
	<input type="checkbox"/> 58.0 [2.28"], 4 [0.16"] thick	8.0010.2100.0000	675	X		X		X	X		
	<input type="checkbox"/> 63.5 [2.5"], 3 [0.12"] thick	8.0010.2120.0000	675	X		X		X	X		
	<input type="checkbox"/> 70.0 [2.76"], 10 [0.39"] thick	8.0010.2600.0000	675	X		X		X	X		
	<input type="checkbox"/> 80.0 [3.15"], 4 [0.16"] thick	8.0010.2800.0000	675	X		X		X	X		
	Flange ø 65 mm [2.56"]	8.0010.2230.0000	676	X		X		X	X		
	With this adapter flange, Kübler encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]										
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000	676	X		X		X	X		
		8.0010.2170.0000			X		X			X	
	Flange, ø 58 mm [2.28"]	8.0010.2180.0000	676	X		X		X	X		
	Converts encoders with a clamping flange into synchro flange.										
	Flange, ø 90 mm [3.54"]	8.0010.2270.0000	677	X		X		X	X		
	Mechanically compatible with former encoder Type 9000										
	Angular flange	8.0010.2300.0000	677	X		X			X		
	80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]										
	Assembly bell	8.0000.4500.XXY Y	678	X		X		X	X		
	Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set										
	Fastening eccentrics	8.0010.4200.0000	679	see table page 679							
	For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.	8.0010.4100.0000									
	Robust bearing unit	8.0010.8200.000C	680	X		X		X	X		
	Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]										
	Bearing box	8.0010.8200.0004	681	X		X		X	X		


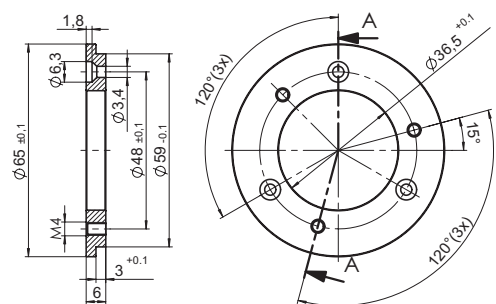

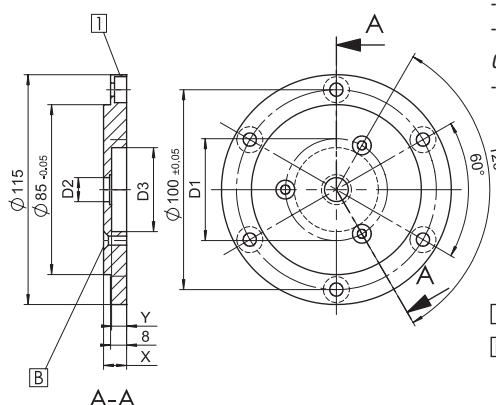

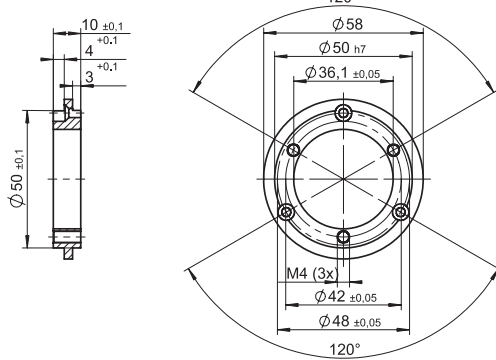
Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - flange (aluminum) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 4 screws (not supplied) <p>8.0010.2100.0000</p>
		<p>8.0010.2120.0000</p>
		<p>8.0010.2600.0000</p>
		<p>8.0010.2800.0000</p>


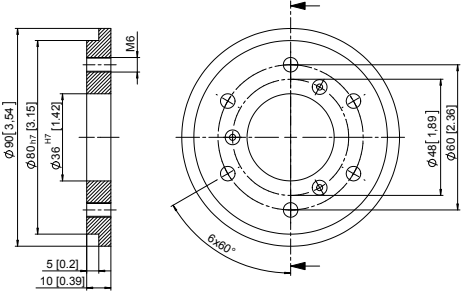

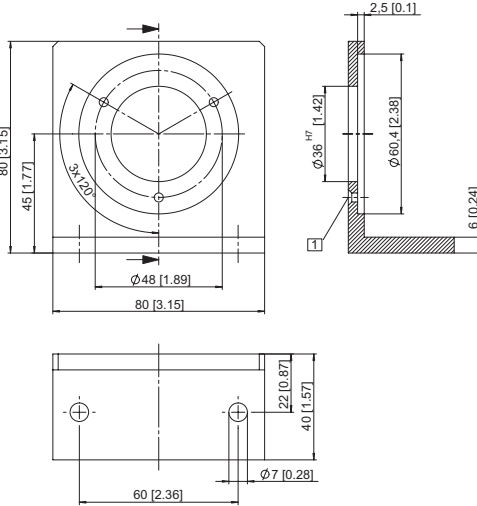
Accessories

Fixing components for shaft encoders

Details

Dimensions / Details		Dimensions in mm [inch]	Order no.																					
Flange, ø 65 [2.56] With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].		 	8.0010.2230.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					
Flange, ø 115 [4.53], Euroflange (Euro REO 444)		<table><tr><th>encoder type</th><th>D1</th><th>D2</th><th>D3</th><th>X</th><th>Y</th><th>B</th></tr><tr><td>580X/5000</td><td>48 [1.89]</td><td>36 [1.42]</td><td>58 [2.28]</td><td>11 [0.43]</td><td>1 [0.039]</td><td>DIN 74-BM3</td></tr><tr><td>70XX</td><td>51 [2.01]</td><td>12 [0.47]</td><td>42 [1.65]</td><td>11.5 [0.45]</td><td>7.5 [0.30]</td><td>DIN 74-BM4</td></tr></table>   <p>1 Countersunk DIN 74-Hm6 B See table</p>	encoder type	D1	D2	D3	X	Y	B	580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3	70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4	8.0010.2160.0000 8.0010.2170.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 6 screws (not supplied)
encoder type	D1	D2	D3	X	Y	B																		
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3																		
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4																		
Flange, ø 58 [2.28] Converts encoders with a clamping flange into synchro flange.		 	8.0010.2180.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, $\varnothing 90$ [3.54] Mechanically compatible with former encoder type 9000 	 <p> $\varnothing 90$ [3.54] $\varnothing 80_{+0.12}^{-0}$ [3.15] $\varnothing 36_{+0.07}^{-0}$ [1.42] M6 5 [0.2] 10 [0.39] $\varnothing 48$ [1.89] $\varnothing 60$ [2.36] 6x$\varnothing 6$ </p>	8.0010.2270.0000 <i>Scope of delivery:</i> - flange - 3 screws for encoder mounting <i>Connection to application:</i> - 6 screws (not supplied)
Angular flange 	 <p> $\varnothing 80$ [3.15] $\varnothing 48$ [1.89] $\varnothing 60$ [2.36] $\varnothing 48$ [1.89] $\varnothing 36_{+0.07}^{-0}$ [1.42] $\varnothing 60.4$ [2.38] 2.5 [0.1] 6 [0.24] 45 [1.77] 80 [3.15] 60 [2.36] 22 [0.87] 40 [1.57] $\varnothing 7$ [0.28] </p>	8.0010.2300.0000 <i>Scope of delivery:</i> - angular flange (aluminum) - 3 screws for encoder mounting <i>Connection to application:</i> - 2 screws (not supplied) [1] Countersunk DIN 74-Hm6

Fixing components for shaft encoders

Details

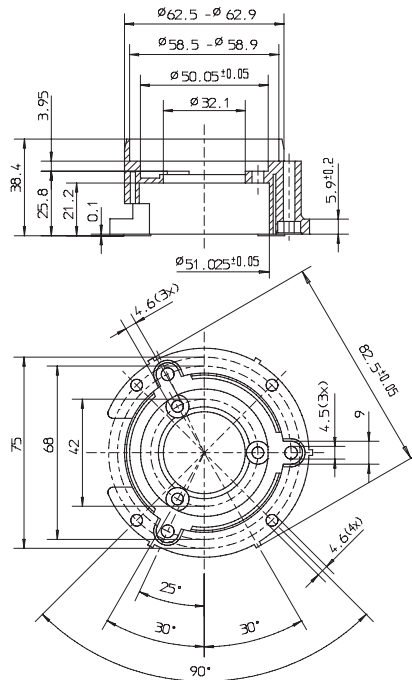
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set

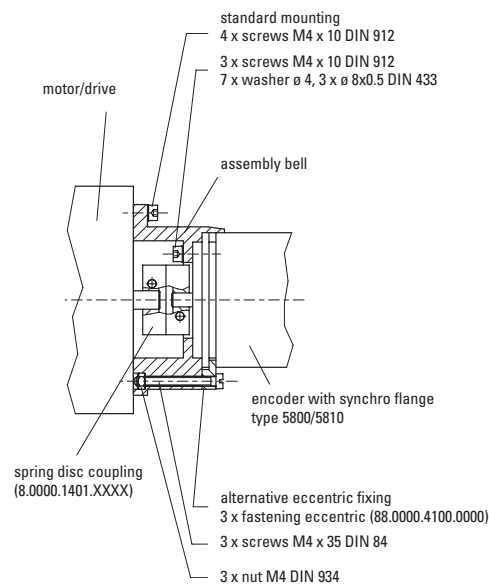


Scope of delivery:



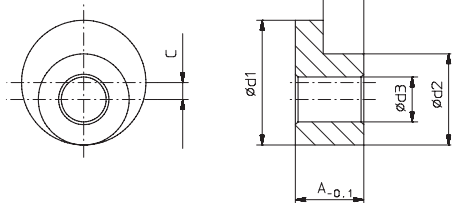
- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 $\varnothing 4$ [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4

8.0000.4500.XXYY










XX = Coupling diameter
d1 in mm
YY = Coupling diameter
d2 in mm




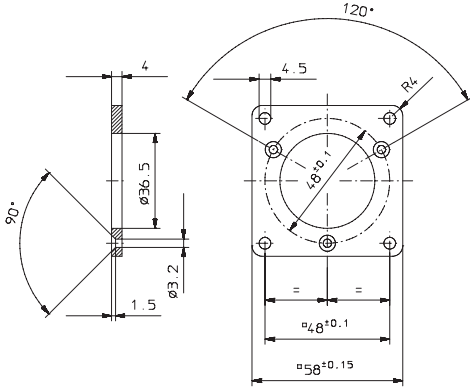
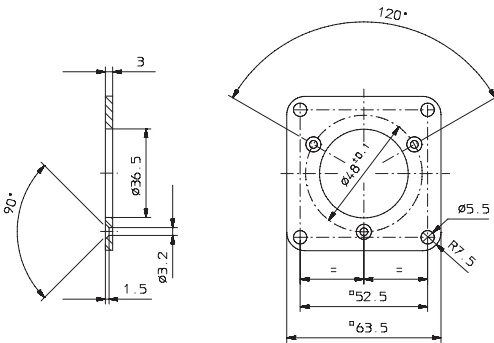
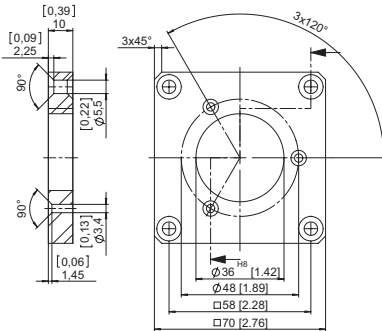
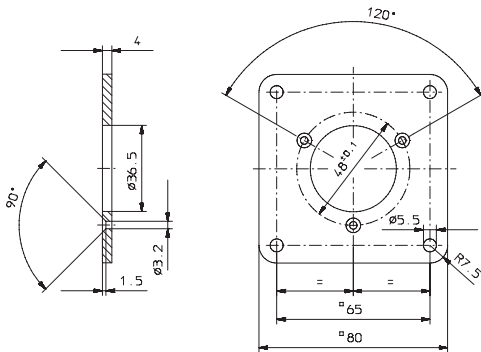
Accessories

Fixing components for shaft encoders							Details		
Dimensions / Details		Dimensions in mm [inch]					Order no.		
Fastening eccentrics for encoders with synchro flange <ul style="list-style-type: none">- Suitable for Kübler encoders with synchro flange- Material ACu Zn 39 Pb 3- Surface finish: galvanized Ni		encoder type	D1	D2	D3	A	B	C	
		3610							8.0010.4200.0000
		3651							
		M3658	6.8	5	2.8	3.5	2.25	0.9	
		F3653 / F3658	[0.27]	[0.20]	[0.11]	[0.14]	[0.09]	[0.035]	
		F3663 / F3668							
 		5000							8.0010.4100.0000
		5803 / 5804 / 5805							
		5853 / 5858	9.6	6.5	3.2	5,6	2.9	1.55	
		5863 / 5868	[0.38]	[0.26]	[0.13]	[0.22]	[0.11]	[0.06]	
		F5863 / F5868							
		5852							
		7053 / 7058							
		7063 / 7068							
		Scope of delivery. <ul style="list-style-type: none">- 3 eccentrics- 3 screws <p>(Use at least three fastening eccentrics to mount the encoder)</p>							

Accessories

Fixing components for shaft encoders				Overview							
Figure	Description	Order no.	Details s.page	Incremental encoders		Abs. singleturn encoders		Abs. multiturn encoders			
				5000, KIS50, 5814, 5006, 5803, 5804, 5805	7000, 7100	5853, 5858, 5852	7053, 7058, 7153, 7158	5863, 5868, F5863, F5868	M5861, M5863, M5868	7063, 7068, 7163, 7168	
	Flange, square Suitable for shaft encoders with clamping flange										
	<input type="checkbox"/> 58.0 [2.28"], 4 [0.16"] thick	8.0010.2100.0000	675	X		X		X	X		
	<input type="checkbox"/> 63.5 [2.5"], 3 [0.12"] thick	8.0010.2120.0000	675	X		X		X	X		
	<input type="checkbox"/> 70.0 [2.76"], 10 [0.39"] thick	8.0010.2600.0000	675	X		X		X	X		
	<input type="checkbox"/> 80.0 [3.15"], 4 [0.16"] thick	8.0010.2800.0000	675	X		X		X	X		
	Flange ø 65 mm [2.56"]	8.0010.2230.0000	676	X		X		X	X		
	With this adapter flange, Kübler encoders with size 58 mm [2.28"] can replace encoders with diameter 65 mm [2.56"] and pitch circle diameter 48 mm [1.89"]										
	Flange, ø 115 mm [4.53"] Euroflange	8.0010.2160.0000	676	X		X		X	X		
		8.0010.2170.0000			X		X			X	
	Flange, ø 58 mm [2.28"]	8.0010.2180.0000	676	X		X		X	X		
	Converts encoders with a clamping flange into synchro flange.										
	Flange, ø 90 mm [3.54"]	8.0010.2270.0000	677	X		X		X	X		
	Mechanically compatible with former encoder Type 9000										
	Angular flange	8.0010.2300.0000	677	X		X			X		
	80 mm x 80 mm x 40 mm [3.15" x 3.15" x 1.57"]										
	Assembly bell	8.0000.4500.XXYY	678	X		X		X	X		
	Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling – supplied as complete set										
	Fastening eccentrics	8.0010.4200.0000	679	see table page 679							
	For shaft encoders with synchronous flange. Use at least three fastening eccentrics to mount the encoder.	8.0010.4100.0000									
	Robust bearing unit	8.0010.8200.000C	680	X		X		X	X		
	Matching shaft encoders with clamping flange and shaft 10 mm [0.39"]										
	Bearing box	8.0010.8200.0004	681	X		X		X	X		


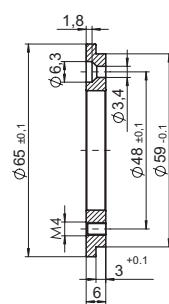
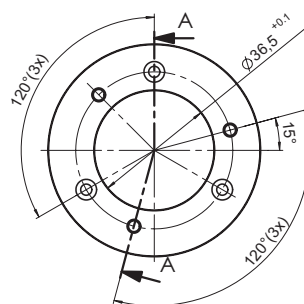

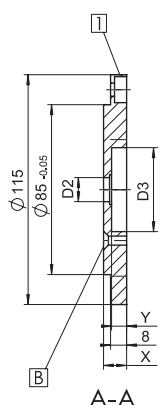
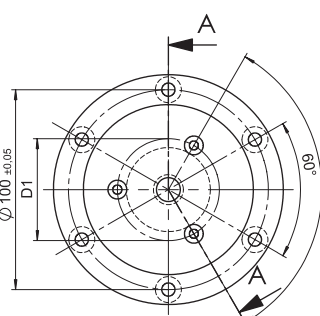

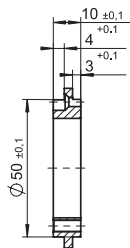
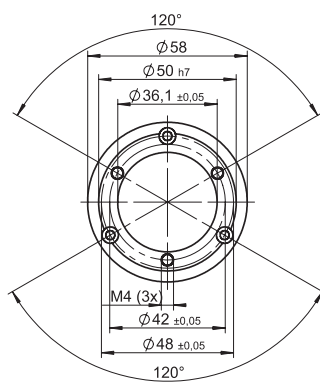
Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, square 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - flange (aluminum) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 4 screws (not supplied) <p>8.0010.2100.0000</p>
		<p>8.0010.2120.0000</p>
		<p>8.0010.2600.0000</p>
		<p>8.0010.2800.0000</p>


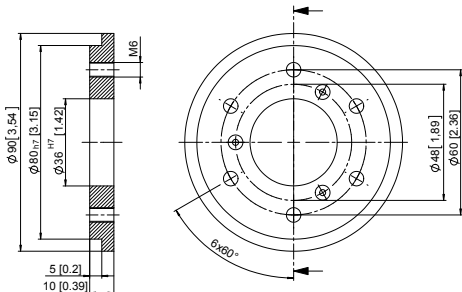

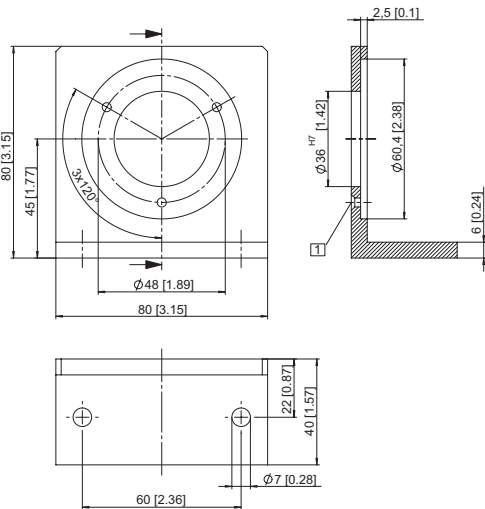
Accessories

Fixing components for shaft encoders

Details

Dimensions / Details		Dimensions in mm [inch]	Order no.																					
Flange, ø 65 [2.56] With this adapter flange, Kübler encoders with size 58 [2.28] can replace encoders with diameter 65 [2.56] and pitch circle diameter 48 [1.89].		  	8.0010.2230.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					
Flange, ø 115 [4.53], Euroflange (Euro REO 444)		<table><tr><th>encoder type</th><th>D1</th><th>D2</th><th>D3</th><th>X</th><th>Y</th><th>B</th></tr><tr><td>580X/5000</td><td>48 [1.89]</td><td>36 [1.42]</td><td>58 [2.28]</td><td>11 [0.43]</td><td>1 [0.039]</td><td>DIN 74-BM3</td></tr><tr><td>70XX</td><td>51 [2.01]</td><td>12 [0.47]</td><td>42 [1.65]</td><td>11.5 [0.45]</td><td>7.5 [0.30]</td><td>DIN 74-BM4</td></tr></table>    <p>1 Countersunk DIN 74-Hm6 B See table</p>	encoder type	D1	D2	D3	X	Y	B	580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3	70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4	8.0010.2160.0000 8.0010.2170.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 6 screws (not supplied)
encoder type	D1	D2	D3	X	Y	B																		
580X/5000	48 [1.89]	36 [1.42]	58 [2.28]	11 [0.43]	1 [0.039]	DIN 74-BM3																		
70XX	51 [2.01]	12 [0.47]	42 [1.65]	11.5 [0.45]	7.5 [0.30]	DIN 74-BM4																		
Flange, ø 58 [2.28] Converts encoders with a clamping flange into synchro flange.		  	8.0010.2180.0000 <i>Scope of delivery:</i> <ul style="list-style-type: none">- flange (aluminum)- 3 screws for encoder mounting <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																					

Accessories

Fixing components for shaft encoders		Details
Dimensions / Details	Dimensions in mm [inch]	Order no.
Flange, $\varnothing 90$ [3.54] Mechanically compatible with former encoder type 9000 	 <p> $\varnothing 90$ [3.54] $\varnothing 80_{+0.12}^{-0.15}$ $\varnothing 36$ $\text{H}7$ [1.42] M6 5 [0.2] 10 [0.39] $\varnothing 48$ [1.89] $\varnothing 60$ [2.36] $6 \times 90^\circ$ </p>	8.0010.2270.0000 <i>Scope of delivery:</i> - flange - 3 screws for encoder mounting <i>Connection to application:</i> - 6 screws (not supplied)
Angular flange 	 <p> 80 [3.15] 45 [1.77] $3 \times 120^\circ$ $\varnothing 48$ [1.89] 80 [3.15] 2.5 [0.1] $\varnothing 36$ $\text{H}7$ [1.42] $\varnothing 60.4$ [2.38] 6 [0.24] 22 [0.87] 40 [1.57] $\varnothing 7$ [0.28] 60 [2.36] </p>	8.0010.2300.0000 <i>Scope of delivery:</i> - angular flange (aluminum) - 3 screws for encoder mounting <i>Connection to application:</i> - 2 screws (not supplied) <div> \square Countersunk DIN 74-Hm6 </div>

Fixing components for shaft encoders

Details

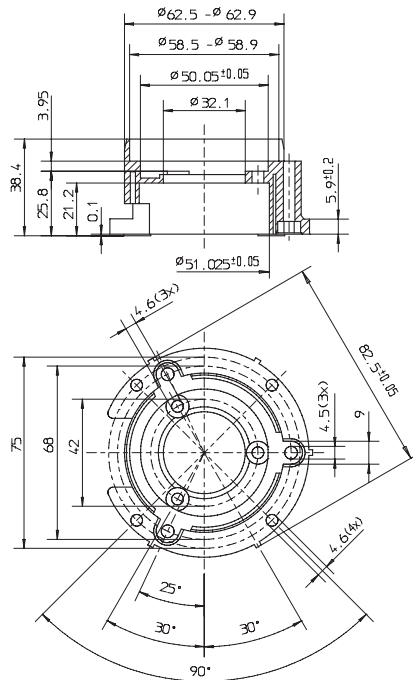
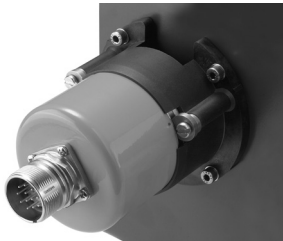
Dimensions / Details

Dimensions in mm [inch]

Order no.

Assembly bell

- Easy and quick encoder mounting
- Electrical and thermal isolation by means of glass fiber reinforced plastic and isolating spring washer coupling
- Supplied as complete set

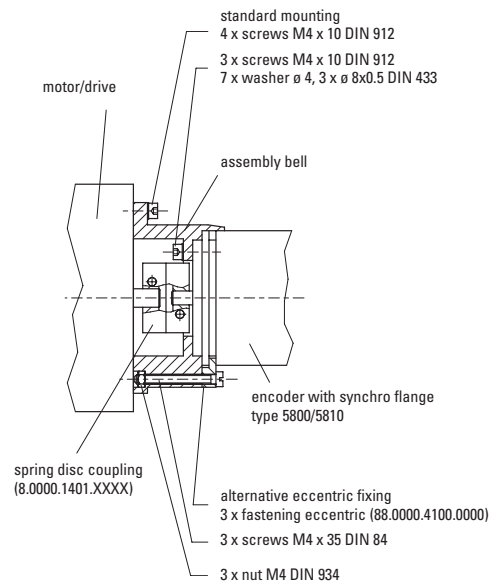


Scope of delivery:


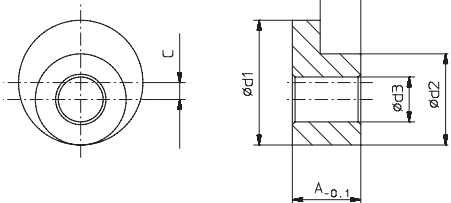
- Assembly bell
- Spring washer type coupling (8.0000.1401.XXXX)
- 4 hexagon socket head cap screws DIN 912 M4 x 12 [0.47]
- 3 hexagon socket head cap screws DIN 912 M4 x 10 [0.39]
- 7 washers DIN 433 $\varnothing 4$ [0.16]
- 3 fastening eccentrics (8.0000.4B00.0000)
- 3 hexagon head screws DIN 84 M 4 x 35 [0.16 x 1.38]
- 3 hexagon nuts DIN 934 - M4

8.0000.4500.XXYY

XX = Coupling diameter
d1 in mm
YY = Coupling diameter
d2 in mm



Accessories

Fixing components for shaft encoders							Details		
Dimensions / Details		Dimensions in mm [inch]					Order no.		
Fastening eccentrics for encoders with synchro flange <ul style="list-style-type: none">- Suitable for Kübler encoders with synchro flange- Material ACu Zn 39 Pb 3- Surface finish: galvanized Ni		encoder type	D1	D2	D3	A	B	C	
		3610							8.0010.4200.0000
		3651							
		M3658	6.8	5	2.8	3.5	2.25	0.9	
		F3653 / F3658	[0.27]	[0.20]	[0.11]	[0.14]	[0.09]	[0.035]	
		F3663 / F3668							
		5000							8.0010.4100.0000
		5803 / 5804 / 5805							
		5853 / 5858	9.6	6.5	3.2	5,6	2.9	1.55	
		5863 / 5868	[0.38]	[0.26]	[0.13]	[0.22]	[0.11]	[0.06]	
		F5863 / F5868							
		5852							
		7053 / 7058							
		7063 / 7068							
		Scope of delivery. <ul style="list-style-type: none">- 3 eccentrics- 3 screws (Use at least three fastening eccentrics to mount the encoder)							

Accessories



Stator coupling

**For hollow shaft encoders
with flange \varnothing 50 ... 58 mm
Mounting radius 32.5 mm**

For lateral mounting on the encoder flange.
For applications with axial and radial play at high dynamics.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 3 screws

8.0010.1602.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Mechanical CAD / STEP
8.0010.1602.0000



Fastening arm, medium (flexible)

**For hollow shaft encoders
with flange \varnothing 50 ... 58 mm
Mounting radius 32.5 ... 45.75 mm**

For applications with axial and radial play with constant rotary movements.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.40E0.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Mechanical CAD / STEP
8.0010.40E0.0000



Stator coupling

**For hollow shaft encoders
with flange \varnothing 50 ... 58 mm
Mounting radius 32.5 mm**

For lateral mounting on the encoder flange.
For applications with axial and radial play at high dynamics.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 3 screws

8.0010.40L0.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Mechanical CAD / STEP
8.0010.40L0.0000



Fastening arm, short (flexible)

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 32.25 mm

For applications with axial and radial play at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.40M0.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Mechanical CAD / STEP
8.0010.40M0.0000



Spring tether element

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

For applications with low radial and axial play and low dynamics.

Scope of delivery

- Wire spring element
- 1 screw for mounting on the encoder.

Connection to the application (not included in delivery)

- 1 screw

8.0010.40W0.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Torque pin, long with fastening thread

**For hollow shaft encoders
with flange ø 36 ... 58 mm**

With mounting thread.

Suitable for:

- Spring element short (8.0010.4H00.0000)
- Spring element long (8.0010.4I00.0000)

8.0010.4700.0000

Data sheet
Accessories hollow shaft
encoder

DE E



Stator coupling, double-winged

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 31.5 mm

For lateral mounting on the encoder flange. For applications with high accuracy requirements.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 2 screws

8.0010.4D00.0000

Data sheet
Accessories hollow shaft
encoder

DE E

Mechanical CAD / STEP
8.0010.4D00.0000



Spring element, short

**For hollow shaft encoders
with flange ø 36 ... 58 mm
Mounting radius 16 ... 27 mm**

For applications with limited axial play at low dynamics and limited installation space.

Scope of delivery

- Spring element (plastic)
- 1 screw for mounting on the encoder

Connection to the application (not included in delivery)

- Parallel pin 8.0010.4700.0000

8.0010.4H00.0000

Data sheet
Accessories hollow shaft
encoder

[DE](#) [E](#)

Mechanical CAD / STEP
8.0010.4H00.0000



Spring element, long

**For hollow shaft encoders
with flange ø 36 ... 58 mm
Mounting radius 30.7 ... 36.7 mm**

For applications with high axial play, at low dynamics.

Scope of delivery

- Spring element (plastic)
- 1 screw for mounting on the encoder

Connection to the application (not included in delivery)

- Parallel pin 8.0010.4700.0000

8.0010.4I00.0000

Data sheet
Accessories hollow shaft
encoder

[DE](#) [E](#)

Mechanical CAD / STEP
8.0010.4I00.0000



Fastening arm, long, (flexible)

**For hollow shaft encoders
with flange ø 50 ... 58 mm
Mounting radius 36.5 ... 85 mm**

For applications with axial and radial play at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.4R00.0000

Data sheet
Accessories hollow shaft
encoder

[DE](#) [E](#)

Mechanical CAD / STEP
8.0010.4R00.0000



Stainless steel clamping ring

For encoder 5020
With hollow shaft ø 12 mm.
For applications with high speeds.

8.0010.4W01.0000


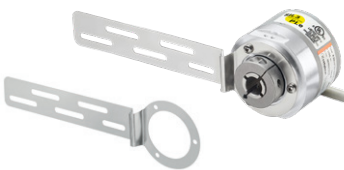

Data sheet
Accessories hollow shaft
encoder

[DE](#) [E](#)


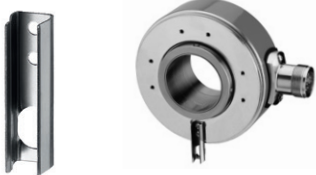




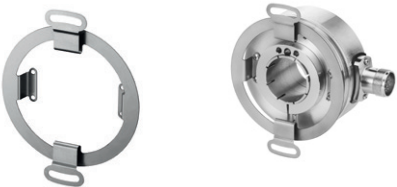
Accessories

Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview							
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders		Absolute multiturn encoders				
					3620, 3720	KIH50, 5020, 5026	5834 Motor-Line	5823, 5824, 5825, 5834	3671, M3678, F3673, F3678	5873, 5878, 5870, 5872	5873 Motor-Line	F3683, F3688	M3681, M3683, M3688	5883, 5888, F5883, F5888	F5883M, F5888M
 	Spring element, short For applications with limited axial play and low dynamics, and reduced mounting space	36XX 42 [1.65] M36XX 42 [1.65] F36XX 42 [1.65] 37XX 40 [1.57] 50XX 42 [1.65] 58XX 42 [1.65] F58XX 42 [1.65]	8.0010.4H00.0000 Connection to the application: cylindrical pin	4	X	X		X	X	X	X	X	X	X	X
 	Spring element, long For applications with axial play and low dynamics	36XX 61,4 [2.42] M36XX 61,4 [2.42] F36XX 61,4 [2.42] 37XX 61,4 [2.42] 50XX 67,4 [2.65] 58XX 73,4 [2.89] F58XX 73,4 [2.89]	8.0010.4I00.0000 Connection to the application: cylindrical pin	4	X	X		X	X	X	X	X	X	X	X
 	Torque stop, short (flexible) For applications with axial and radial play, low dynamics	64.5 [2.54]	8.0010.40M0.0000 Connection to the application: 1 screw	4		X		X		X				X	X
 	Torque stop, medium (flexible) For applications with axial and radial play for constant rotary movements	65 ... 91.5 [2.56 ... 3.60]	8.0010.40E0.0000 Connection to the application: 1 screw	4		X		X		X				X	X
 	Torque stop, long (flexible) For applications with axial and radial play and low dynamics	80 ... 170 [3.15 ... 6.69]	8.0010.4R00.0000 Connection to the application: 1 screw	5		X		X		X				X	X
 	Stator coupling, double-winged For applications with axial and radial play and high dynamics	46 [1.81]	8.0010.4C00.0000 Connection to the application: 2 screws	5	X				X						X
 	Stator coupling, double-winged For applications with high demands for accuracy	63 [2.48]	8.0010.4D00.0000 Connection to the application: 2 screws	5		Flansch C + D	X	X		X	X			X	
 	Stator coupling, for fixing to side of encoder For standard applications with axial and radial play, and high dynamics	65 [2.56]	8.0010.1602.0000 Connection to the application: 3 screws	6		Flansch C + D		X		X				X	X
 	Stator coupling, for fixing to front of encoder For applications with axial and radial play and high dynamics	65 [2.56]	8.0010.40L0.0000 Connection to the application: 3 screws	6		X		X		X				X	X
 	Spring tether element For applications with low axial and radial play and low dynamics	42 ... 84.5 [1.65 ... 3.33]	8.0010.40W0.0000 Connection to the application: 1 screw	6		X		X		X				X	X


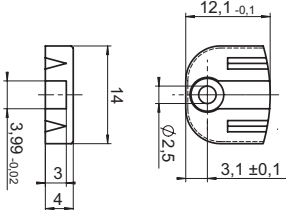

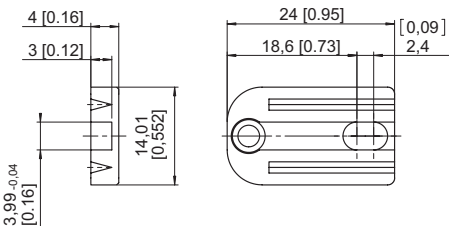

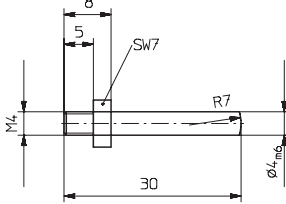
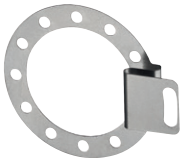
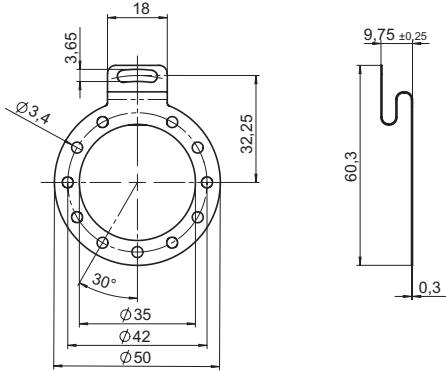

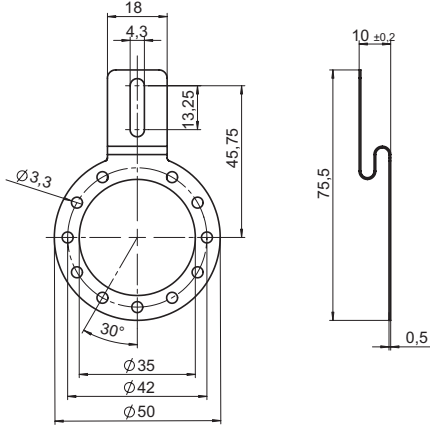
Accessories

Fixing components for hollow shaft encoders				For encoders up to ø 58 mm				Overview						
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	Incremental encoders				Absolute singleturn encoders			Absolute multiturn encoders		
					5834FSx	5020	5823, 5824, 5825	5823, 5824, 5825	5873FSx	5873, 5878	5873 Motor-Line	5883FSx	5883, 5888, F5883, F5888,	F5883M, F5888M
	Stator coupling Designed for functional safety thanks to the 4-screw-principle.	63 [2.48]	8.0010.40B2.00FS <i>Connection to the application:</i> 4 screws	7	X	X	X	X	X	X	X	X	X	
	Torque stop, flexible Designed for functional safety. For applications with axial and radial play and low dynamics.	79 ... 285 [3.11 ... 11.22]	8.0010.4047.00FS <i>Connection to the application:</i> 1 screw	7	X	X	X		X	X		X	X	X
	Torque stop set, rigid Designed for functional safety. For applications with very low axial and radial play and low dynamics.	65 ... 287 mm [2.56 ... 11.30]	8.0010.4051.00FS <i>Connection to the application:</i> cylindrical pin	8	X	X	X		X	X			X	X

Accessories


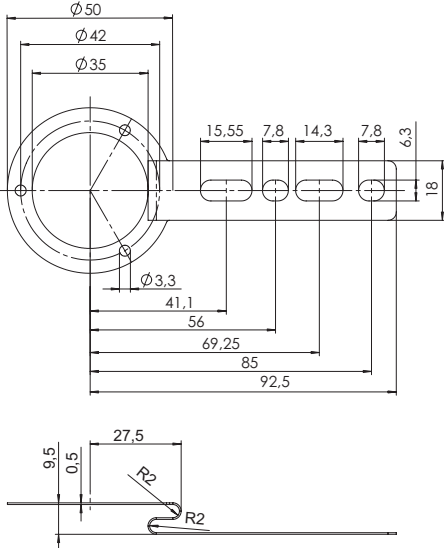

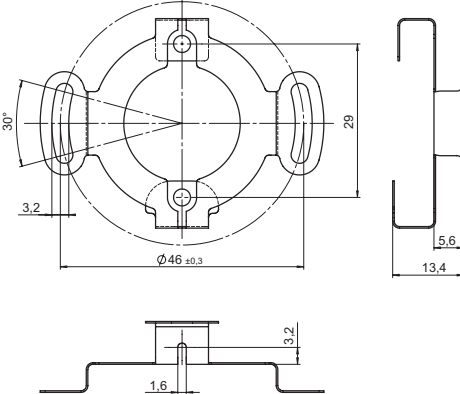

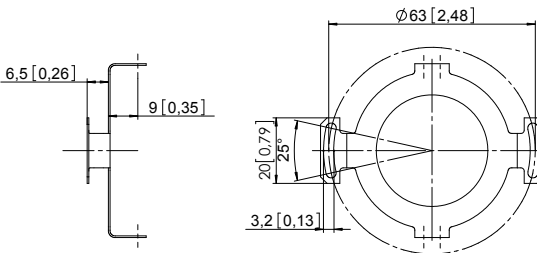
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview		
Figure	Description	Pitch circle diameter in mm [inch]	Order no.	Details s. page	A020, A02H	H120
	Spring element, short For applications with reduced mounting space	76 [2.99]	8.0010.4J00.0000 Connection to the application: cylindrical pin	9	X	
	Spring element, long For applications with high axial play	110 [4.33]	8.0010.4K00.0000 Connection to the application: cylindrical pin	9	X	
	Torque stop, short For applications with axial play	149 [5.87]	8.0010.4T00.0000 Connection to the application: s. details	9	X	
	Torque stop, long For applications with fastening points located on variable pitch circle diameters	104 ... 206 [4.09 ... 8.11]	8.0010.4E00.0000 Connection to the application: 1 screw	10	X	
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S0.0000 8.0010.40T0.0000 8.0010.40U0.0000 Connection to the application: 1 screw	10	X	X
	Tether arm, long For applications with low axial and radial play, flexible in use	Length = 70 [2.75]: Length = 100 [3.94]: Length = 150 [5.91]: 262 ... 422 [10.32 ... 16.61]	8.0010.40S1.0000 8.0010.40T1.0000 8.0010.40U1.0000 Connection to the application: 1 screw	11		X
	Stator coupling For applications with axial and radial play and high dynamics	119 [4.69]	8.0010.40V0.0000 Connection to the application: 2 screws	11	X	X

Accessories


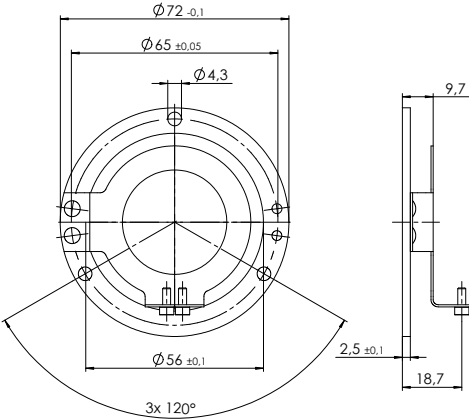

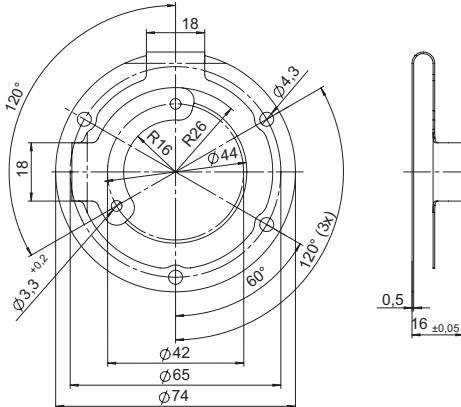


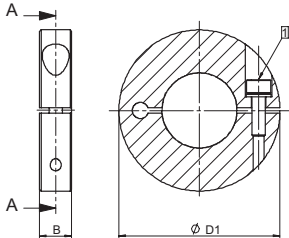
Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short 		Scope of delivery: <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long 		Scope of delivery: <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000 ¹⁾
Torque stop, short 		Scope of delivery: <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium 		Scope of delivery: <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000 ¹⁾

1) Stock types


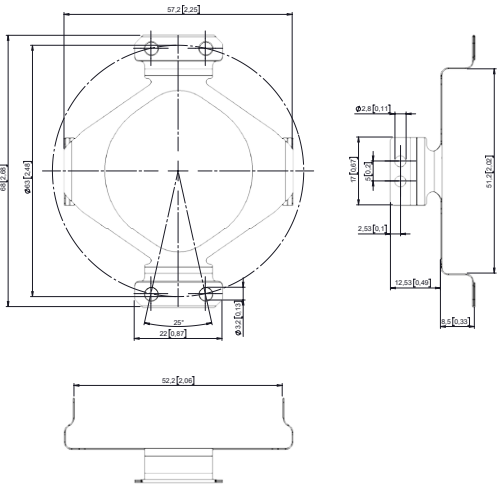
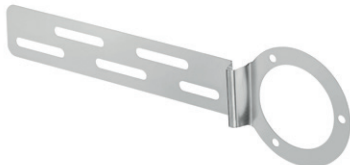
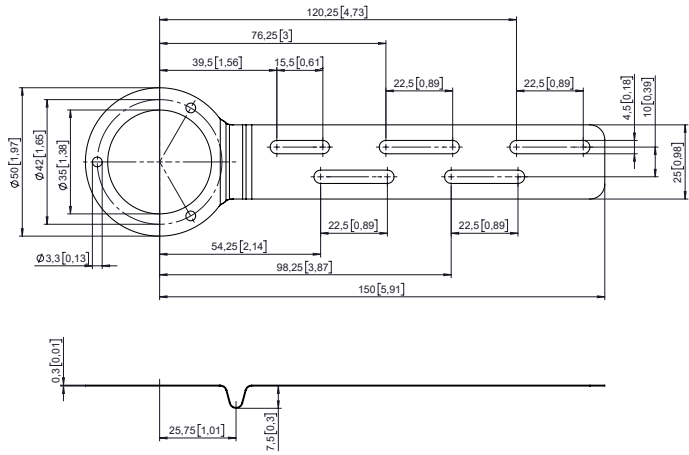
Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details			Order no.
Torque stop, long 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.4R00.0000
Stator coupling, double-winged for front fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 2 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 screws (not supplied) 	8.0010.4C00.0000
Stator coupling, double-winged for side fixing onto the encoder flange 		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Stator coupling (stainless steel) - 4 screws M2.5 x 6 [0.24] for fixing to the encoders <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 2 socket head screws M3 x 8 [0.32] with washer (supplied) 	8.0010.4D00.0000


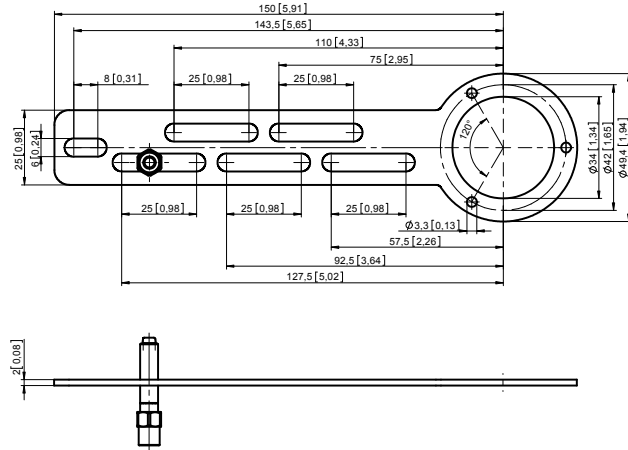

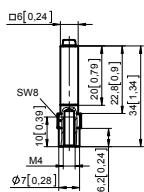
Accessories


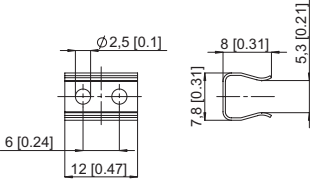

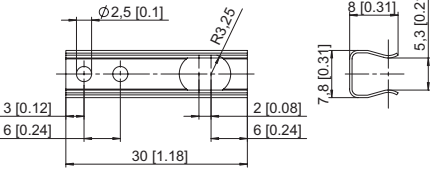

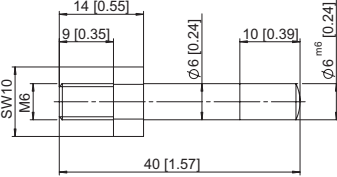

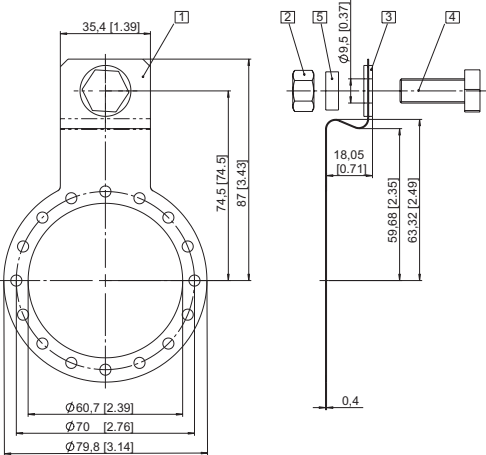
Fixing components for hollow shaft encoders		For encoders up to ø 58 mm		Details																								
Dimensions / Details		Dimensions in mm [inch]		Order no.																								
Stator coupling for side fixing onto the encoder flange			<i>Scope of delivery:</i> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																									
			8.0010.1602.0000																									
Stator coupling for front fixing onto the encoder flange			<i>Scope of delivery:</i> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 2 screws for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 3 screws (not supplied)																									
			8.0010.40L0.0000																									
Spring tether element		<i>Scope of delivery:</i> <ul style="list-style-type: none">- spring tether element- 1 screw for fixing to the encoder <i>Connection to application:</i> <ul style="list-style-type: none">- 1 screw (not supplied)																										
		8.0010.40W0.0000																										
Clamping ring Stainless steel, for high rotational speeds			<table><tr><th></th><th>for encoder</th><th>B</th><th>D1</th><th>for hollow shaft ø</th><th></th></tr><tr><td rowspan="2">582X</td><td>6 [0.236]</td><td>29 [1.14]</td><td>10 [0.39]</td><td></td><td>8.0000.4V00.0000</td></tr><tr><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td></td><td>8.0000.4W00.0000</td></tr><tr><td>5020</td><td>6.2 [0.244]</td><td>30 [1.18]</td><td>12 [0.47]</td><td></td><td>8.0010.4W01.0000</td></tr></table>				for encoder	B	D1	for hollow shaft ø		582X	6 [0.236]	29 [1.14]	10 [0.39]		8.0000.4V00.0000	6.2 [0.244]	30 [1.18]	12 [0.47]		8.0000.4W00.0000	5020	6.2 [0.244]	30 [1.18]	12 [0.47]		8.0010.4W01.0000
				for encoder	B	D1	for hollow shaft ø																					
582X	6 [0.236]	29 [1.14]	10 [0.39]		8.0000.4V00.0000																							
	6.2 [0.244]	30 [1.18]	12 [0.47]		8.0000.4W00.0000																							
5020	6.2 [0.244]	30 [1.18]	12 [0.47]		8.0010.4W01.0000																							
1 screw DIN 912 A2 M2.5, max. tightening torque 0.45 Nm																												

Accessories


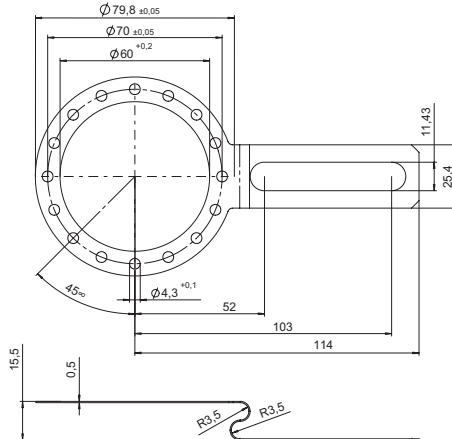

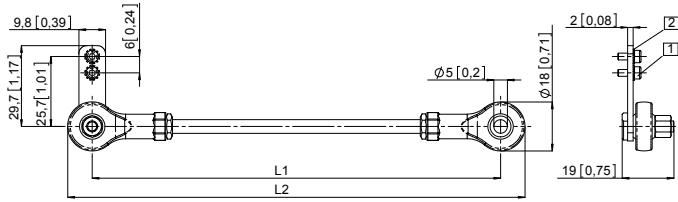
Fixing components for hollow shaft encoders		For encoders up to ø 58 mm	Details
Dimensions / Details		Dimensions in mm [inch]	Order no.
<div>Stator coupling</div> <div></div> <div></div>		<div>Scope of delivery:</div> <ul style="list-style-type: none">- Stator coupling (stainless steel)- 4 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <div>Connection to application:</div> <ul style="list-style-type: none">- 4 screws (not supplied) <div>Max. permissible shaft connection tolerances:</div> <ul style="list-style-type: none">- Axial offset < ± 0.25 mm- Radial offset < ± 0.20 mm- Angular offset < 1°	8.0010.40B2.00FS
<div>Torque stop, flexible</div> <div></div> <div></div>		<div>Scope of delivery:</div> <ul style="list-style-type: none">- Fastening arm (stainless steel)- 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <div>Connection to application:</div> <ul style="list-style-type: none">- 1 screw (not supplied) <div>Max. permissible shaft connection tolerances:</div> <ul style="list-style-type: none">- Axial offset < ± 0.25 mm- Radial offset < ± 0.20 mm- Angular offset < 1°	8.0010.4047.00FS

Accessories

Fixing components for hollow shaft encoders		For encoders up to $\varnothing 58$ mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Torque stop set, rigid 		8.0010.4051.00FS	
		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws M3x6 mm [M3 x 0.24"] for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 cylindrical pin 8.0010.4049.0075 (not supplied) <p><i>Max. permissible shaft connection tolerances:</i></p> <ul style="list-style-type: none"> - Axial offset < ± 0.25 mm - Radial offset < ± 0.20 mm - Angular offset < 1° 	
Cylindrical pin (replacement) 		8.0010.4049.0075	
		<p>suitable for:</p> <p>torque stop 8.0010.4051.00FS</p>	


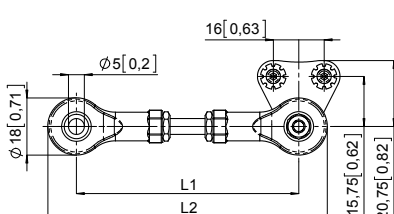
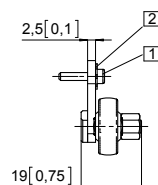

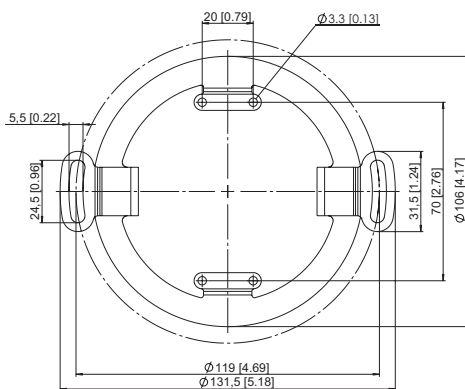
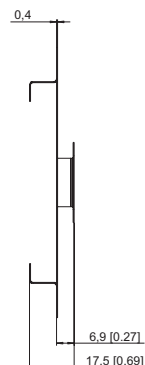
Fixing components for hollow shaft encoders		For encoders > Ø 58 mm	Details
Dimensions / Details		Dimensions in mm [inch]	Order no.
Spring element, short 		Scope of delivery: <ul style="list-style-type: none"> - Spring element (stainless steel) - 2 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - Cylindrical pin (8.0010.4700.0003) (not supplied) 	8.0010.4J00.0000
Spring element, long 		Scope of delivery: <ul style="list-style-type: none"> - Spring element (stainless steel) - 2 screws for fixing to the encoder Connection to application: <ul style="list-style-type: none"> - Cylindrical pin (8.0010.4700.0003) (not supplied) 	8.0010.4K00.0000
Cylindrical pin, long with fastening thread 		suitable for spring element short (8.0010.4J00.0000) and long (8.0010.4K00.0000)	8.0010.4700.0003
Torque stop, short 		Scope of delivery: <ol style="list-style-type: none"> 1 Fastening arm (stainless steel) - 3 screws for fixing to the encoder Connection to application: <ol style="list-style-type: none"> 2 Hexagonal nut 3/8 - 16 UNC 3 Washer (isolating) 4 Hexagonal screw 3/8 16 UNC x 1" 5 Washer D10.4 x 15 x 15 (supplied) 	8.0010.4T00.0000 ¹⁾

Accessories




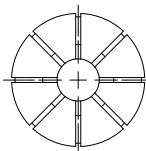
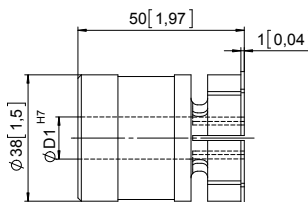
Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Details														
Dimensions / Details		Dimensions in mm [inch]		Order no.														
<div>Torque stop, long</div> <div></div>		<div></div>		<div>Scope of delivery:</div> <div><ul style="list-style-type: none">- Fastening arm (stainless-steel)- 3 screws for fixing to the encoder</div> <div>Connection to application:</div> <div><ul style="list-style-type: none">- 1 screw (not supplied)</div>		<div>8.0010.4E00.0000 ¹⁾</div>												
<div>Tether arm, long</div> <div></div>		<table><tr><th>Tether arm</th><th>L1</th><th>L2</th></tr><tr><td>70 mm [2.76]</td><td>64 ... 74 [2.51 ... 2.91]</td><td>82 ... 92 [3.23 ... 3.62]</td></tr><tr><td>100 mm [3.93]</td><td>94 ... 104 [3.70 ... 4.09]</td><td>112 ... 122 [4.41 ... 4.80]</td></tr><tr><td>150 mm [5.91]</td><td>144 ... 154 [5.67 ... 6.06]</td><td>162 ... 172 [6.38 ... 6.77]</td></tr></table>		Tether arm	L1	L2	70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	<div>Scope of delivery:</div> <div><ul style="list-style-type: none">- Tether arm- For fixing to the encoder:</div> <div><div>1</div>2 cap screws M2.5 x 6 [0.24]</div> <div><div>2</div>2 lock washers</div>		<div>8.0010.40S0.0000</div> <div>8.0010.40T0.0000</div> <div>8.0010.40U0.0000</div>
Tether arm	L1	L2																
70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]																
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150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]																
		<div></div>																

1) Stock types


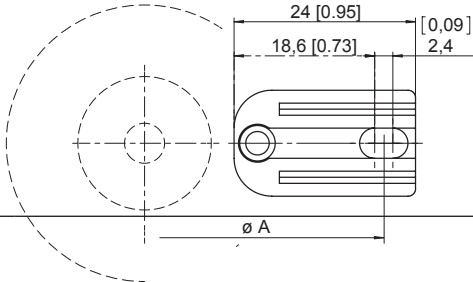
Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm		Overview
Dimensions / Details		Dimensions in mm [inch]		Order no.
<div>Tether arm, long</div> 	Tether arm	L1	L2	
	70 mm [2.76]	64 ... 74 [2.51 ... 2.91]	82 ... 92 [3.23 ... 3.62]	8.0010.40S1.0000
	100 mm [3.93]	94 ... 104 [3.70 ... 4.09]	112 ... 122 [4.41 ... 4.80]	8.0010.40T1.0000
	150 mm [5.91]	144 ... 154 [5.67 ... 6.06]	162 ... 172 [6.38 ... 6.77]	8.0010.40U1.0000
	<div>Scope of delivery:</div> <div><div>- Tether arm</div><div>- For fixing to the encoder:<div><div>1 2 cap screws M2,5 x 12 [0.47]</div><div>2 2 lock washers</div></div></div><div>Connection to application:</div><div><div>- 1 screw (not supplied)</div></div></div>			
				
<div>Stator coupling</div> 	<div>Scope of delivery:</div> <div><div>- Stator coupling (stainless steel)</div><div>- 4 screws for fixing to the encoder</div></div> <div>Connection to application:</div> <div><div>- 2 screws (not supplied)</div></div>			8.0010.40V0.0000
				

Accessories

Fixing components for hollow shaft encoders		For encoders > ø 58 mm	Overview																												
Dimensions / Details	Dimensions in mm [inch]	Order no.																													
Protective cover 		<p>For applications with a very high degree of pollution, Kübler now offers a protective cover for</p> <ul style="list-style-type: none">• Improved reliability• Extension of the service life of the encoder <p>Scope of delivery:</p> <ul style="list-style-type: none">• Protective cover• Fastening arm (8.0010.4T00.0000)• 3 screws for fixing to the encoder	8.0010.40Y0.0001																												
Tapered shaft mounting kit for A02H with hollow shaft, ø 38 mm [1.50"] 		<p>For use in upgrading for tapered shaft mounting. Tapered shafts are used for high-precision direct coupling.</p> <p>An isolation insert is also included in the mounting kit; this reliably protects the encoder from shaft currents.</p> <p>Included in the set:</p> <ul style="list-style-type: none">• Insert for cone blind hole, cone 1:10, 17 mm [0.67"] length• Isolation insert• Allen screw for central fixing	8.0010.4028.0000																												
Isolation insert for hollow shaft, ø 38 mm [1.50"] Temperature range -40°C ... +115°C [-40°F ... +239°F]   		<p>ø D1:</p> <table><tr><td>12 mm [0.47"]</td><td>8.0010.4091.0000</td></tr><tr><td>14 mm [0.55"]</td><td>8.0010.4027.0000</td></tr><tr><td>15 mm [0.59"]</td><td>8.0010.4038.0000</td></tr><tr><td>16 mm [0.63"]</td><td>8.0010.4019.0000</td></tr><tr><td>18 mm [0.71"]</td><td>8.0010.4080.0000</td></tr><tr><td>20 mm [0.79"]</td><td>8.0010.4011.0000</td></tr><tr><td>25 mm [0.98"]</td><td>8.0010.4012.0000</td></tr><tr><td>30 mm [1.18"]</td><td>8.0010.4016.0000</td></tr><tr><td>32 mm [1.26"]</td><td>8.0010.4015.0000</td></tr><tr><td>1/2"</td><td>8.0010.4013.0000</td></tr><tr><td>5/8"</td><td>8.0010.4070.0000</td></tr><tr><td>3/4"</td><td>8.0010.4090.0000</td></tr><tr><td>1"</td><td>8.0010.4050.0000</td></tr><tr><td>1 1/4"</td><td>8.0010.4060.0000</td></tr></table>	12 mm [0.47"]	8.0010.4091.0000	14 mm [0.55"]	8.0010.4027.0000	15 mm [0.59"]	8.0010.4038.0000	16 mm [0.63"]	8.0010.4019.0000	18 mm [0.71"]	8.0010.4080.0000	20 mm [0.79"]	8.0010.4011.0000	25 mm [0.98"]	8.0010.4012.0000	30 mm [1.18"]	8.0010.4016.0000	32 mm [1.26"]	8.0010.4015.0000	1/2"	8.0010.4013.0000	5/8"	8.0010.4070.0000	3/4"	8.0010.4090.0000	1"	8.0010.4050.0000	1 1/4"	8.0010.4060.0000	
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1 1/4"	8.0010.4060.0000																														
Isolation insert for hollow shaft, ø 42 mm [1.65"]	<p>external diameter 42 mm [1.65"] / internal diameter 38 mm [1.50"]</p> <p>external diameter 42 mm [1.65"] / internal diameter 12 mm [0.47"]</p>	8.0010.4017.0000 8.0010.4029.0000																													

Accessories

Fixing components for hollow shaft encoders		For encoders up to \varnothing 58 mm	Details
Dimensions / Details	Dimensions in mm [inch]	Order no.	
Spring element, short		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4H00.0000
Spring element, long		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - spring element (plastic) - 1 screw for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - cylindrical pin (8.0010.4700.0000) (not supplied) 	8.0010.4I00.0000
Cylindrical pin, long with fastening thread		suitable for spring element short (8.0010.4H00.0000) and long (8.0010.4I00.0000)	8.0010.4700.0000
Torque stop, short		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40M0.0000
Torque stop, medium		<p><i>Scope of delivery:</i></p> <ul style="list-style-type: none"> - Fastening arm (stainless steel) - 3 screws for fixing to the encoder <p><i>Connection to application:</i></p> <ul style="list-style-type: none"> - 1 screw (not supplied) 	8.0010.40E0.0000

Accessories



Screw retention Loctite 243 (5 ml)

Loctite 243 is a universally usable screw retention. Screws and nuts are secured against loosening due to vibrations and sealed in the same time.

8.0000.4G05.0000

Data sheet

Screw retention Loctite



EMC shield terminal

For EMC-compliant installation of the encoder cable.

Mounting on top hat rail

Shield diameter

8.0000.4G06.0312 (03-12 mm)

Weight approx. 7.4 g

Clamp (spring steel, galvanized)

Foot (spring steel)

8.0000.4G06.0312

Data sheet

EMC shield terminal

Mechanical CAD / STEP

8.0000.4G06.0XXX



Torque stop, flexible

For hollow shaft encoders with flange ø 58 mm

Mounting radius 39.5 ... 142.75 mm

Designed for functional safety technology.

For applications with axial and radial play at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 M3x6 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.4047.00FS

Data sheet

Accessories hollow shaft encoder

Mechanical CAD / STEP

8.0010.4047.00FS

Operation Manual

8.0010.4047.00FS -

Accessories torque stop, flexible (FS)



Cylindrical pin (replacement)

For hollow shaft encoders with flange ø 58 mm

Designed for functional safety technology.

suitable for:

Torque brackets 8.0010.4051.00FS

8.0010.4049.0075

Data sheet

Accessories hollow shaft encoder

Mechanical CAD / STEP

8.0010.4049.0075



Fastening arm set, rigid

**For hollow shaft encoders
with flange \varnothing 58 mm**

Mounting radius 32.5 ... 143.5 mm

Designed for functional safety technology.
For applications with very low axial and radial play
at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws M3x6 for mounting to the encoder

Connection to the application (not included in delivery)

- 1 torque pin 8.0010.4049.0075

8.0010.4051.00FS

Mechanical CAD / STEP
8.0010.4051.00FS

Operation Manual
8.0010.4051.00FS -
Accessories torque stop,
rigid (FS)



Stator coupling (FS)

**For hollow shaft encoders
with flange \varnothing 58 mm**

Mounting radius 31.5 mm

Designed for functional safety technology by 4-
screw principle.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws M3x6 for mounting to the encoder

Connection to application (not included in delivery)

- 4 screws

8.0010.40B2.00FS

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.40B2.00FS

Operation Manual
Supplement to stator
coupling operating
instructions (FS)

Accessories



Clamping ring with hollow shaft ø 10 mm, stainless steel

For rotary encoder 582x
With hollow shaft ø 10 mm.
For applications with high speeds.

8.0000.4V00.0000

Data sheet
Accessories hollow shaft
encoder



Clamping ring with hollow shaft ø 12 mm, stainless steel

For rotary encoder 582x
With hollow shaft ø 12 mm.
For applications with high speeds.

8.0000.4W00.0000

Data sheet
Accessories hollow shaft
encoder



Stator coupling

**For hollow shaft encoders
with flange ø 50 ... 58 mm
Mounting radius 32.5 mm**

For lateral mounting on the encoder flange.
For applications with axial and radial play at high
dynamics.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 3 screws

8.0010.1602.0000

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.1602.0000



Torque stop, flexible

**For hollow shaft encoders
with flange ø 58 mm
Mounting radius 39.5 ... 142.75 mm**

Designed for functional safety technology.
For applications with axial and radial play at low
dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 M3x6 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.4047.00FS

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.4047.00FS

Operation Manual
8.0010.4047.00FS
Accessories torque stop,
flexible (FS)



Fastening arm set, rigid

**For hollow shaft encoders
with flange ø 58 mm**

Mounting radius 32.5 ... 143.5 mm

Designed for functional safety technology.
For applications with very low axial and radial play
at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws M3x6 for mounting to the encoder

Connection to the application (not included in delivery)

- 1 torque pin 8.0010.4049.0075

8.0010.4051.00FS

Mechanical CAD / STEP
8.0010.4051.00FS

Operation Manual
8.0010.4051.00FS -
Accessories torque stop,
rigid (FS)



Stator coupling (FS)

**For hollow shaft encoders
with flange ø 58 mm**

Mounting radius 31.5 mm

Designed for functional safety technology by 4-
screw principle.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws M3x6 for mounting to the encoder

Connection to application (not included in delivery)

- 4 screws

8.0010.40B2.00FS

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.40B2.00FS

Operation Manual
Supplement to stator
coupling operating
instructions (FS)



Fastening arm, medium (flexible)

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 32.5 ... 45.75 mm

For applications with axial and radial play with
constant rotary movements.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.40E0.0000

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.40E0.0000



Stator coupling

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 32.5 mm

For lateral mounting on the encoder flange.
For applications with axial and radial play at high
dynamics.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

Data sheet
Accessories hollow shaft
encoder

Mechanical CAD / STEP
8.0010.40L0.0000

delivery)
- 3 screws

8.0010.40L0.0000



Fastening arm, short (flexible)

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 32.25 mm

For applications with axial and radial play at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.40M0.0000

Data sheet

Accessories hollow shaft
encoder

Mechanical CAD / STEP

8.0010.40M0.0000



Spring tether element

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

For applications with low radial and axial play and low dynamics.

Scope of delivery

- Wire spring element
- 1 screw for mounting on the encoder.

Connection to the application (not included in delivery)

- 1 screw

8.0010.40W0.0000

Data sheet

Accessories hollow shaft
encoder

Torque pin, long with fastening thread

**For hollow shaft encoders
with flange ø 36 ... 58 mm**

With mounting thread.

Suitable for:

- Spring element short (8.0010.4H00.0000)
- Spring element long (8.0010.4I00.0000)

8.0010.4700.0000

Data sheet

Accessories hollow shaft
encoder



Stator coupling, double-winged

**For hollow shaft encoders
with flange ø 50 ... 58 mm**

Mounting radius 31.5 mm

For lateral mounting on the encoder flange. For applications with high accuracy requirements.

Scope of delivery

- Stator coupling (stainless steel)
- 4 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 2 screws

Data sheet

Accessories hollow shaft
encoder

Mechanical CAD / STEP

8.0010.4D00.0000



Spring element, short

**For hollow shaft encoders
with flange ø 36 ... 58 mm
Mounting radius 16 ... 27 mm**

For applications with limited axial play at low dynamics and limited installation space.

Scope of delivery

- Spring element (plastic)
- 1 screw for mounting on the encoder

Connection to the application (not included in delivery)

- Parallel pin 8.0010.4700.0000

8.0010.4H00.0000

Data sheet

Accessories hollow shaft encoder

Mechanical CAD / STEP

8.0010.4H00.0000



Spring element, long

**For hollow shaft encoders
with flange ø 36 ... 58 mm
Mounting radius 30.7 ... 36.7 mm**

For applications with high axial play, at low dynamics.

Scope of delivery

- Spring element (plastic)
- 1 screw for mounting on the encoder

Connection to the application (not included in delivery)

- Parallel pin 8.0010.4700.0000

8.0010.4I00.0000

Data sheet

Accessories hollow shaft encoder

Mechanical CAD / STEP

8.0010.4I00.0000



Fastening arm, long, (flexible)

**For hollow shaft encoders
with flange ø 50 ... 58 mm
Mounting radius 36.5 ... 85 mm**

For applications with axial and radial play at low dynamics.

Scope of delivery

- Torque support (stainless steel)
- 3 screws for mounting on the encoder

Connection to the application (not included in delivery)

- 1 screw

8.0010.4R00.0000

Data sheet

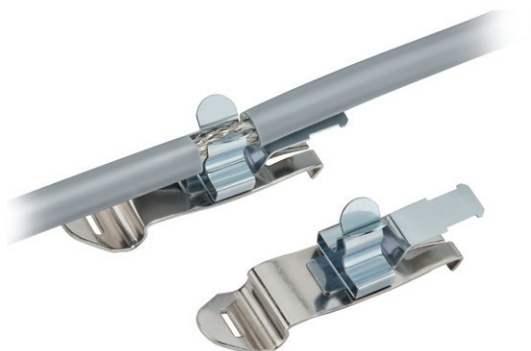
Accessories hollow shaft encoder

Mechanical CAD / STEP

8.0010.4R00.0000

General Accessories

EMC shield terminal



For an EMC-compliant installation of the encoder cable, top-hat rail mounting

Order number

Shield diameter 3.0 ... 12.0 mm

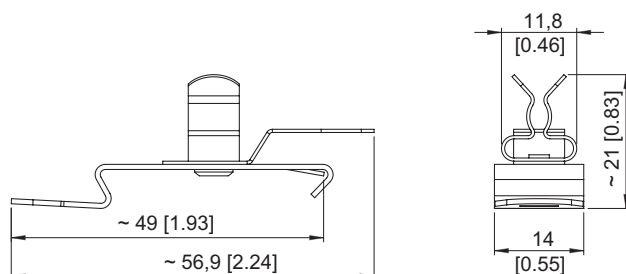
8.0000.4G06.0312

Material




Clamp	spring steel, galvanized
Foot	spring steel

Dimensions


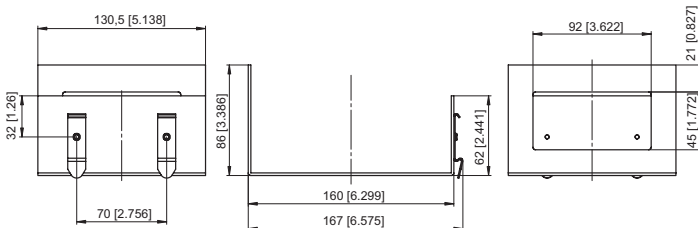

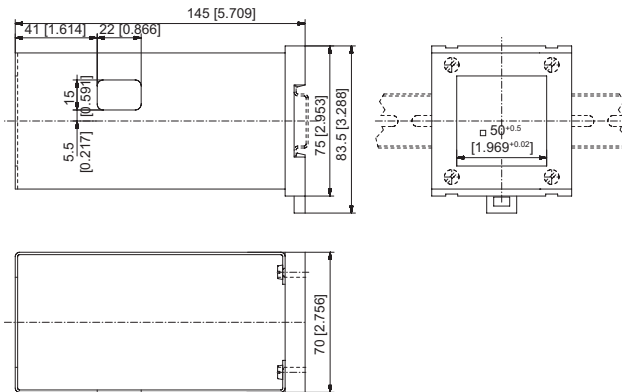

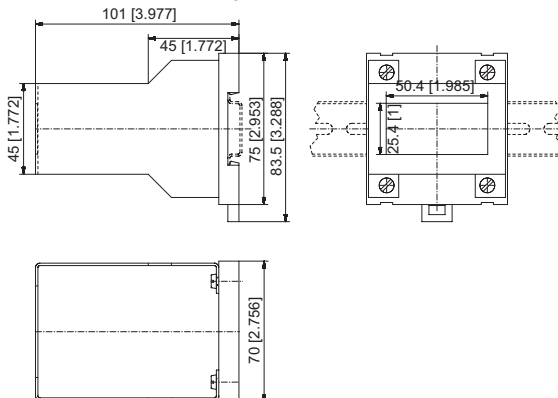
Dimensions in mm [inch]




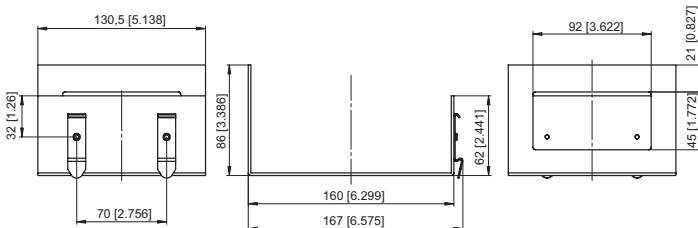

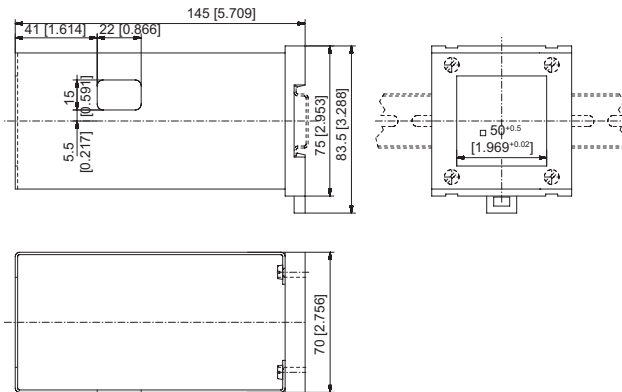

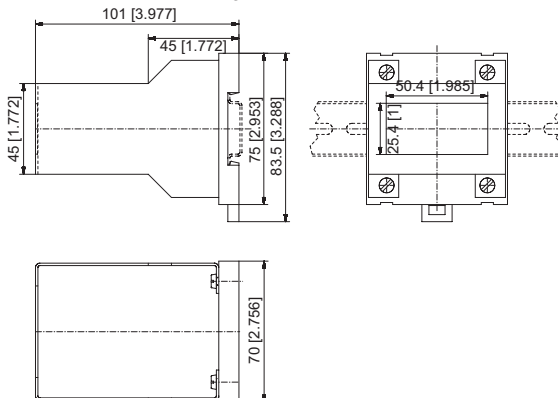
Accessories

Safety modules		Safety-M compact																																			
Dimensions / Details		Dimensions in mm [inch]	Order no.																																		
<div>Display and programming unit</div> <div></div> <div></div>		<p>The display can be removed on all Safety-M compact devices. The high-contrast OLED has a touch screen with intuitive menu guidance.</p> <p>Editing, saving and loading of parameters and display with individually scalable process and speed values for optimal operability and diagnostics in the plant. The display can be used optionally as a storage and copy unit for the speed monitor. Programmable with the Safety-M compact programming cable set 05.C162RK1.</p> <p><i>Technical data:</i></p> <table><tr><td>Mounting</td><td>pluggable, mechanical-magnetic lock</td></tr><tr><td>Interface</td><td>pin strip, 8-pin (rear side)</td></tr><tr><td>Power supply</td><td>via basic module SMCx</td></tr><tr><td>Current consumption</td><td>appr. 100 mA</td></tr><tr><td>Ambient temperature</td><td>-20 °C ... +55 °C [-4 °F ... +131 °F]</td></tr><tr><td>Storage temperature</td><td>-25 °C ... +70 °C [-13 °F ... +158 °F]</td></tr><tr><td>Dimensions (WxHxD)</td><td>50 x 80 x 15 mm [1.97 x 3.15 x 0.59"]</td></tr><tr><td>Weight</td><td>appr. 50 g</td></tr><tr><td>Protection</td><td>IP20</td></tr><tr><td>Material</td><td>front side: Polycarbonate rear side: Polystyrene</td></tr><tr><td>Display</td><td>OLED 128 x 64 pixels (1.54")</td></tr><tr><td>Brightness</td><td>adjustable</td></tr><tr><td>Keyboard</td><td>Touch screen (6 capacitive keys)</td></tr><tr><td>Key tones</td><td>beep, can be switched off</td></tr><tr><td>Data memory</td><td>Flash, EEPROM</td></tr><tr><td>Memory cycles</td><td>1 million</td></tr><tr><td>CE compliant acc. to</td><td>EMC guideline 2014/30/EU RoHS guideline 2011/65/EU</td></tr></table>	Mounting	pluggable, mechanical-magnetic lock	Interface	pin strip, 8-pin (rear side)	Power supply	via basic module SMCx	Current consumption	appr. 100 mA	Ambient temperature	-20 °C ... +55 °C [-4 °F ... +131 °F]	Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]	Dimensions (WxHxD)	50 x 80 x 15 mm [1.97 x 3.15 x 0.59"]	Weight	appr. 50 g	Protection	IP20	Material	front side: Polycarbonate rear side: Polystyrene	Display	OLED 128 x 64 pixels (1.54")	Brightness	adjustable	Keyboard	Touch screen (6 capacitive keys)	Key tones	beep, can be switched off	Data memory	Flash, EEPROM	Memory cycles	1 million	CE compliant acc. to	EMC guideline 2014/30/EU RoHS guideline 2011/65/EU	<p><i>Suitable for our safety modules Safety-M compact:</i></p> <p>SMC1.x, SMC2.x</p> <p>8.SMCB.100</p>
Mounting	pluggable, mechanical-magnetic lock																																				
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<div>Software OSxx</div> <div></div>		<p>The OSxx software allows PC-based configuration of the Safety-M compact family.</p> <p><i>Suitable for our safety modules Safety-M compact:</i></p> <p>SMC1.x, SMC2.x</p>	<p><i>Online on our homepage</i></p> <p>www.kuebler.com/software</p>																																		

Accessories

Mounting frame		Details		Order no.
Dimensions / Details		Dimensions in mm [inch]		
Mounting frame with cut-out 92 x 45 mm [3.62 x 1.77"] for counters 96 x 48 mm [3.78 x 1.89"]		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> Codix 54x, 55x, 56x, 57x grey	G300005
				
Mounting frame with cut-out 50 x 50 mm [1.97 x 1.97"] for counters 53 x 53 mm [2.09 x 2.09"] and 55 x 55 mm [2.16 x 2.16"] (cut-out 45 x 45 mm [1.77 x 1.77"] via supplied adapter for counter 48 x 48 mm [1.89 x 1.89"])		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> BVa 15.21, HVa 15.21, MVs 16.2x chromated via supplied adapter for: 901, Codix 907 / 908, Codix 923 / 924, H 57, HC 77, HW 66, HW 66 M,	G300003
				
Mounting frame with cut-out 50 x 25 mm [1.97 x 0.98"] for counters 53 x 28 mm (cut-out 45 x 22.2 mm [1.77 x 0.94"] via separate adapter T008180 or T008165 for counter 48 x 24 mm [1.89 x 0.94"])		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> B 1x.2x, HB 2x.2x., H 37.2 chromated via supplied adapter T008180 for: Codix 13x, 14x, 52x, 53x, W 15.5, W 16.5, W 17.5, H 37.5 via adapter T008165: H 37	G300004
				

Accessories

Mounting frame		Details		Order no.
Dimensions / Details		Dimensions in mm [inch]		
Mounting frame with cut-out 92 x 45 mm [3.62 x 1.77"] for counters 96 x 48 mm [3.78 x 1.89"]		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> Codix 54x, 55x, 56x, 57x grey	G300005
				
Mounting frame with cut-out 50 x 50 mm [1.97 x 1.97"] for counters 53 x 53 mm [2.09 x 2.09"] and 55 x 55 mm [2.16 x 2.16"] (cut-out 45 x 45 mm [1.77 x 1.77"] via supplied adapter for counter 48 x 48 mm [1.89 x 1.89"])		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> BVa 15.21, HVa 15.21, MVs 16.2x chromated via supplied adapter for: 901, Codix 907 / 908, Codix 923 / 924, H 57, HC 77, HW 66, HW 66 M,	G300003
				
Mounting frame with cut-out 50 x 25 mm [1.97 x 0.98"] for counters 53 x 28 mm (cut-out 45 x 22.2 mm [1.77 x 0.94"] via separate adapter T008180 or T008165 for counter 48 x 24 mm [1.89 x 0.94"])		<i>description:</i> for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	<i>suitable for:</i> B 1x.2x, HB 2x.2x., H 37.2 chromated via supplied adapter T008180 for: Codix 13x, 14x, 52x, 53x, W 15.5, W 16.5, W 17.5, H 37.5 via adapter T008165: H 37	G300004
				

Accessories



Bezel adapter set

Adapter front frame 72x36mm to 48x24mm for cutout 68x33mm to cutout 45x22.2mm. Available as a set in black and silver anodized.

2 front frame black and silver, 1 balance frame.

162.704.set

Data sheet
Adapter front bezel



Blind housing 13x, 14x

Blind housing for 22.2x45mm and 25x50mm cutout.

Blind housing, clamping bracket, seals, adapter front frame.

G.003.836

Data sheet
Enclosure blind



Sealing cover K1

Flexible sealing cap for front frame F1B and adapter front frame N003001 made of soft PVC with painted sheet steel frame and mounting screws. IP65 protection according to DIN 40050 when installed. Suitable for B15.31, B16.31, B16.30, B18.30, F1B15.01, F1B16.01, F1B16.00 and F1B18.00. With adapter frame N.003.001 for 130, 131, 132, 133, 134, 135, 136, 140, 141, 142, 143, 520, 521, 522, 523, 524, 52U, 52P, 52T.

Sealing cap (PVC) with sheet steel frame, 2 mounting screws M4x15.

Grau **G.008.300**

Schwarz **G.008.301**

Data sheet
Sealing cover



Mounting frame, 24x48

For the installation of all counters, timers, process devices with DIN dimensions 24x48mm or 50x25mm. Cutout 25x50mm. For snap-on mounting on 35mm DIN top hat rail.

Meter holder (chrome-plated sheet steel), DIN hat-rail adapter (fiber-reinforced polyamide).

G.300.004

Data sheet
Mounting frame



Bezel adapter

Adapter front frame 50x60mm for cutout F1B 54x29mm to 45x22.2mm for screw fastening with seal. Available in black.

N.003.001

Data sheet
Adapter front bezel (2)



Transparent cover, lockable

Screw-on transparent cover for front frame F1B and adapter front frame N003001, 1 DV, lockable for dimension F1. With seal over M4 mounting screws with own frame. Suitable for B15.31, B16.31, B16.30, B18.30, F1B15.01, F1B16.01, F1B16.00 and F1B18.00. With adapter frame N.003.001 for 130, 131, 132, 133, 134, 135, 136, 140, 141, 142, 143, 520, 521, 522, 523, 524, 52U, 52P, 52T.

Transparent cover, seal, 2 mounting screws.

N.003.002

Data sheet
Transparent cover 2



Sealing gasket N.511029

Outer dimension: 48 x 24 [1.89 x 0.945"]
Inner dimension: 45 x 22 [1.772 x 0.866"]

N.511029

Data sheet
Gaskets



Bezel adapter 37.1

Adapter front frame 37.1 for front panel cutout 50x25mm to 45x22.2mm with screw fastening. Available in black, gray and anthracite.

Schwarz

T.008.161

Anthrazit

T.008.181

Data sheet
Adapter front bezel



Slip on bezel 37.2

Adapter front frame 37.2 for front panel cutout 50x25mm to 45x22.2mm. Available in black, gray and anthracite.

Schwarz

T.008.165

Anthrazit

T.008.180

Data sheet
Adapter front bezel



Bezel adapter

Adapter front frame 48x48mm to 48x24mm for cutout 45x45mm to cutout 45x22.2mm. Available in black.

T.008.883

Data sheet
Adapter front bezel (2)

Accessories



Front bezel F2B

Plastic front frame F2B for 54x54mm cutout and 946 socket in dimension F2 for one Bva, HVa or 2 B, HB meter. Pluggable from the front.

Beige **G.007.503**

Schwarz **G.007.504**

Data sheet
Front bezel



Sealing cover K2

Flexible sealing cap for dimension F2, IP65 protection. Suitable for BVa15.13, BVa15.31, BVa15.33 and HVa15.31 within F2B. 2 B counters or 2 HB counters and MVs16.03 in frame F2M and junction box 926.1, 716, 717 901, 907, 908, 923, 924 with adapter frame 45 (T.008.860).

Grau **G.008.302**

Schwarz **G.008.303**

Data sheet
Sealing cover

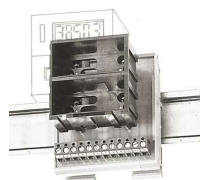


Socket box type 946.1

Socket type 946.1 (plastic). Pluggable from the front.

G.008.439

Data sheet
Socket box 2



Rail mount frames SR1, SR2, SR3

The SR 1, SR 2, and SR 3 mounting rail frames can be snapped onto TS 35x7.5 and TS 35x15 mounting rails according to DIN EN 50022 or TS 32 according to DIN EN 50035.

Electromechanical and electronic totalizer, preset or hour meters can be plugged into the built-in sockets.

SR1 **G.300.000**

SR2 **G.300.001**

SR3 **G.300.002**

Data sheet
DIN rail mount



Mounting frame, 48x48

For the installation of all meters, timers with the DIN dimensions 48x48mm. Cutout 50x50mm. For snap-on mounting on 35mm DIN top hat rail

Meter holder (chrome-plated sheet steel), DIN hat-rail adapter (fiber-reinforced polyamide).

G.300.003

Gaskets

Data sheet
Mounting frame



Sealing gasket N.511020

Outer dimension: 60 x 75 [2.363 x 2.953"]
Inner dimension: 50 x 50 [1.969 x 1.969"]

N.511020

Adapter front bezel

Details

Dimensions / Details

Dimensions in mm [inch]

Order no.

Adapter front bezel, 60 x 75 mm [2.36 x 1.97"]

with screw mounting
for counters 48 x 48 mm

cut-out:

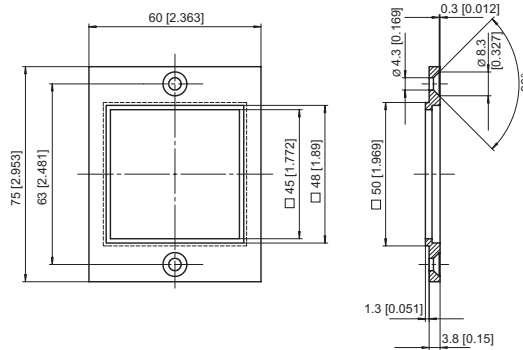
for cut-out 50 x 50 mm [1.97 x 1.97"]
to cut-out 45 x 45 mm [1.77 x 1.77"]

suitable for:

901, Codix 907 / 908, Codix 923 / 924,
H 57, HC 77, HW 66, HW 66 M

black

T008860



Adapter front bezel, 72 x 72 mm [2.83 x 2.83"]

with clip mounting
for counters 48 x 48 mm

(Mating clip must be ordered separately)

cut-out:

for cut-out 68 x 68 mm [2.68 x 2.68"]
to cut-out 45 x 45 mm [1.77 x 1.77"]

suitable for:

901, Codix 907 / 908, Codix 923 / 924,
H 57, HC 77, HW 66, HW 66 M

grey

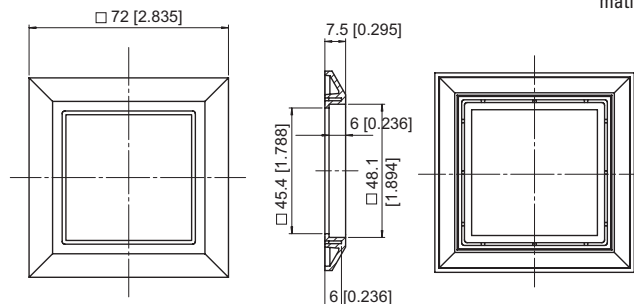
black

mating clip

T008176

T008177

T009420



Adapter front bezel, ø 72 mm [2.83"]

with clip mounting
for counters 48 x 48 mm

cut-out:

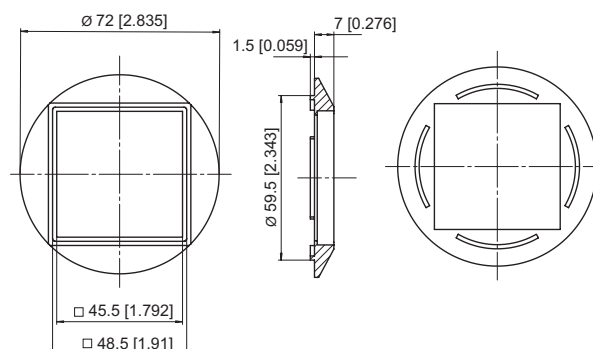
for cut-out \varnothing 60 mm [2.36"]
to cut-out 45 x 45 mm [1.77 x 1.77"]

suitable for:

901, Codix 907 / 908, Codix 923 / 924,
H 57, HC 77, HW 66, HW 66 M

black

N510226



Accessories



Sealing gasket N.511011

Outer dimension: 39 x 40 [1.536 x 1.575"]
Inner dimension: 33.3 x 22 [1.311 x 0.866"]

N.511011

Data sheet
Gaskets



Sealing gasket N.511030

Outer dimension: 55 x 31.5 [2.166 x 1.286"]
Inner dimension: 37 x 24 [1.061 x 0.945"]

N.511030

Data sheet
Gaskets



Sealing gasket N.511040

Outer dimension: 36 x 24 [1.457 x 1.024"]
Inner dimension: 33.3 x 22 [1.311 x 0.866"]

N.511040

Data sheet
Gaskets



Sealing gasket N.511043

Outer dimension: 55 x 26 [2.166 x 1.061"]
Inner dimension: 33.3 x 22 [1.311 x 0.866"]

N.511043

Data sheet
Gaskets

General Accessories

IO-Link Master USB

IOL1A.1K1341.ZZ1UU1



The IO-Link Master USB is suitable for quick and easy parameterization of devices with an IO-Link interface.



Characteristics

- Process and service data can be read and written with the corresponding IODD.
- Pin 4 (C/Q) of the master can be operated both in IO-Link (IOL) and in standard IO (SIO) mode, depending on the DTM parameterization.
- Support for all common transmission speeds: 4.8 kBit/s (COM1), 38.4 kBit/s (COM2) and 230.4 kBit/s (COM3).
- Connection of the master via the supplied cable with USB-B mini interface. This is also used to supply the connected IO-Link devices with power.
For devices with high power consumption (> 2.5 W), the external plug-in power supply unit must also be used.
- The latest version of the DTM is available for download at: kuebler.com/dtm

Order no.

IO-Link Master USB

IOL1A.1K1341.ZZ1UU1

Cables and connectors

Order no.

Preassembled cables

M12 female connector with coupling nut, 4 pin, A coded, straight (stainless steel V4A)
M12 male connector with external thread, 4 pin, A coded, straight (stainless steel V4A)
2 m [6.56'] PUR cable

M12 female connector with coupling nut, 4 pin, A coded, straight
M12 male connector with external thread, 4 pin, A coded, straight
2 m [6.56'] PUR cable

M12 female connector with coupling nut, 5 pin, A coded, angled
M12 male connector with external thread, 5 pin, A coded, straight
2 m [6.56'] PUR cable

05.00.6061.D4D2.002M

05.00.6061.6462.002M

05.00.6061.6364.002M

General Accessories

IO-Link Master USB	IOL1A.1K1341.ZZ1UU1
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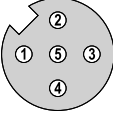
Technical data

Electrical characteristics	
Supply voltage	24 V DC
Max. Load current	40 mA via USB-B 1.6 A via plug-in power supply unit
Network connection	USB-B
Connection IO-Link port	M12 x 1, A coded

Interface characteristics IO-Link	
IO-Link	1-channel operation in IOL or SIO mode
Function	SIO, COM1, COM2, COM3
Number of IO-Link ports	1
Network	USB

Mechanical characteristics	
Dimensions (W x H x D)	54 x 41 x 24 mm [2.16 x 1.61 x 0.94"]
Weight	96 g [3.39 oz]
Operating temperature	-5 °C ... +55 °C [+23 °F ... +131 °F]
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Protection	IP40

Terminal assignment

Interface	M12 connector, female contacts, 5-pin, A-coded						
IO-Link	Signal	+V	n.c.	0 V	C/Q	n.c.	
	Pin:	1	2	3	4	5	

- +V :

0 V :

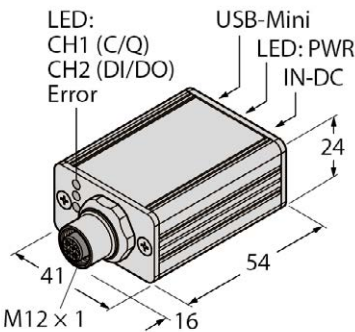
C/Q :
- Supply voltage 24 V DC

Supply voltage ground GND (0 V)

IO-Link

Dimensions

Dimensions in mm [inch]

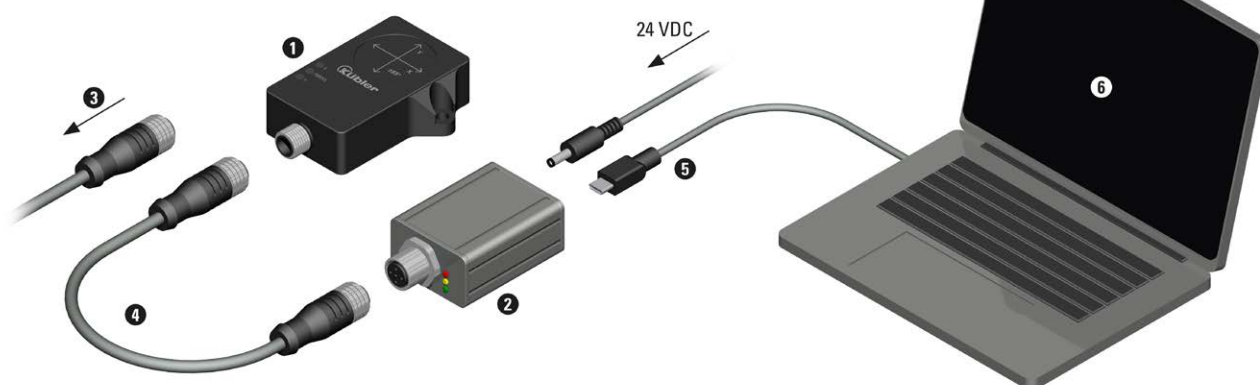


IO-Link Master USB

IOL1A.1K1341.ZZ1UU1

Technology in detail

Connection of the IO-Link Master USB



Connection

The IO-Link device **1** is or will be disconnected from the application **3**.
 The IO-Link Master USB **2** is connected to IO-Link device with an adapter cable **4** and connected to the PC via the USB interface **5**.
 The device parameters can be set using appropriate software **6** (e.g. PACTware)



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Петрозаводск (8142)55-98-37
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Смоленск (4812)29-41-54
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Ставрополь (8652)20-65-13
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Сыктывкар (8212)25-95-17
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Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
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