

Счетчики с предустановкой электрохимические, электронные BVa15, MVs13, Codix 570T, Codix 571T, Codix 901, Codix 907, Codix 908

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Preset counters, electromechanical

Standard counters	Subtracting, 2 or 3 digits (AC+DC)	MVs13
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The electromechanical preset counters MVs13 (with manual and manual/electrical reset) boast a robust construction with very small dimensions.

They are ideal for use in harsh industrial environments. The subtracting counters are set to a value via the front keys, the signal occurs when the count value reaches 0.



Characteristics

- 2- or 3-digit subtracting preset counter.
- Manual or manual and electrical reset.
- Potential free changeover contact (microswitch) on reaching zero.
- Contact switches for "0" count position and remains unswitched until reset to zero.

Benefits

- Delivery complete with push-on connectors.
- Very small dimensions.
- Versions with sealing cover on request.

Applications

Piece counting, batch quantities and automation.

Type series

	3 digits manual reset	3 digits manual and electr. reset	2 digits manual reset	2 digits manual and electr. reset
Front bezel with mounting holes	MVs13.11	MVs13.13	MVs13.11/2	MVs13.13/2
Front bezel with mounting clip	MVs13.21	MVs13.23	MVs13.21/2	MVs13.23/2

Type / Counting mechanism

Voltage	Type	Pulse frequency max.	Pulse on time min.	Pulse interval min.	Pulse ratio	On-time	Power consump. approx.	Permi. residual ripple max.	Operating temp. (non-condensing)
V DC	1	25 Hz	24 ms	16 ms	3 : 2	100 %	4 W	48 %	-10°C ... +45°C [+14°F ... +113°F]
V AC	a	18 Hz	22.2 ms	33.3 ms	2 : 3	100 %	4.5 VA	—	-10°C ... +45°C [+14°F ... +113°F]

Accessories

		Type / size	Description		Order no.
Sealing cover IP65		KV3	Screw mounting	transp. /grey transp. /black	G008310 G008311



Cable 6 x 2 x 0,14 mm² , 8-0000-6Y00-XXXX
Unassembled by the meter

PUR Ø 7,5 mm ± 0,2 mm
6 x 2 x 0,14 mm²

8.0000.6Y00.XXXX

Preset counters, electromechanical

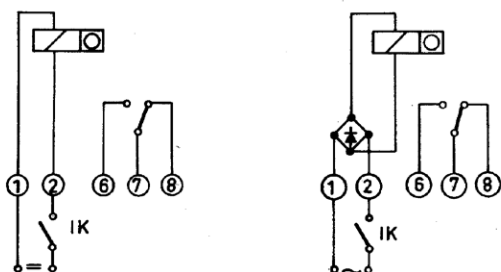
Standard counters	Subtracting, 2 or 3 digits (AC+DC)	MVs13
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Technical data			
Electrical connection		tinned flat pins 0.8 x 2.8 mm [0.032 x 0.11"] (with push on connectors)	
Rated voltages	count mechanism	12 / 24 / 48 / 115 / 230 V DC ±10 %	
		24 / 48 / 115 / 230 V AC ±10 %	
	reset magnet	24 / 48 / 115 / 230 V DC ±10 %	
		24 / 48 / 115 / 230 V AC ±10 %	
Height of figures		4 mm [0.16"]	
Color of housing		similar to RAL 7001	
Color of figures		white on black	
Counting mechanism shaft		stainless steel	
Mounting position		any	
Service life		approx. 100 x 10 ⁶ pulses	
Protection		IP40 (front side)	
Weight		approx. 150 g [5.29 oz],	
	with electrical reset	approx. 190 g [6.70 oz]	
Device safety	designed to	EN 61010 part 1	
	protection class	2	
	application area	pollution level 2	
Test voltage		2000 V, effective	
Switching contact		1 change over contact (micro switch), release in 2nd half-step exactly at zero	
Load (max.) (with resistive load)	AC	250 V AC	2.0 A
	DC	24 V DC	2.0 A
		60 V DC	0.7 A
		115 V DC	0.4 A
		230 V DC	0.2 A
With inductive load: suitable spark quenching is required on inductive load, reducing the max. current to approx. 60 %			
Electrical reset	on time	10 % max. 40 seconds	
	minimum pulse time	0.25 sec.	
	power consumption	12 W at DC, 14 VA at AC	

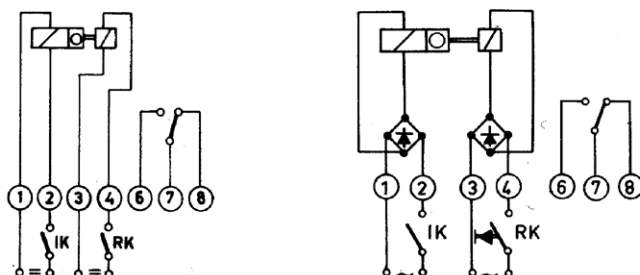
Options	
Electrical reset only	
Approvals	
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

Connection diagrams

Manual reset



Manual and electrical reset

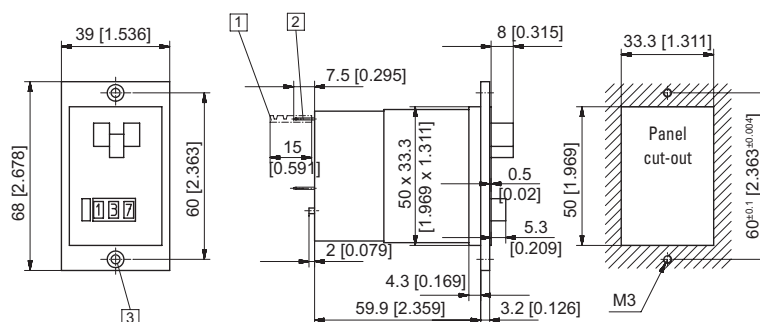


Preset counters, electromechanical

Standard counters	Subtracting, 2 or 3 digits (AC+DC)	MVs13
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Front bezel with mounting holes,
manual reset

Type MVs13.11, MVs13.11/2

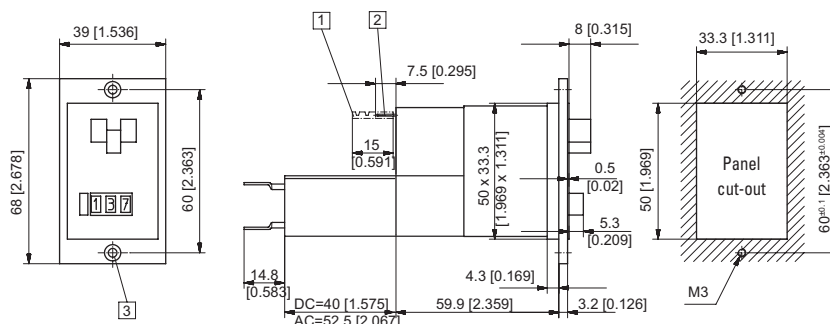


- 1 Push-on connector 0.8 x 2.8 [0.032 x 0.11] tinned 2 Flat pin 0.8 x 2.8 [0.032 x 0.11] tinned
 3 Countersinking Af3 DIN 74 Color of housing grey (standard)

Voltage	Type / Art. no.	MVs13.11 (display 3 digits)			MVs13.11/2 (display 2 digits)		
		24 V	115 V	230 V	24 V	115 V	230 V
DC (25 Hz)		2.300.110.033	—	—	2.310.110.033	—	—
AC (18 Hz)		2.300.110.061	2.300.110.064	2.300.110.066	2.310.110.061	2.310.110.064	2.310.110.066

Front bezel with mounting holes,
manual and electrical reset

Type MVs13.13, MVs13.13/2



- 1 Push-on connector 0.8 x 2.8 [0.032 x 0.11] tinned 2 Flat pin 0.8 x 2.8 [0.032 x 0.11] tinned
 3 Countersinking Af3 DIN 74 Color of housing grey (standard)

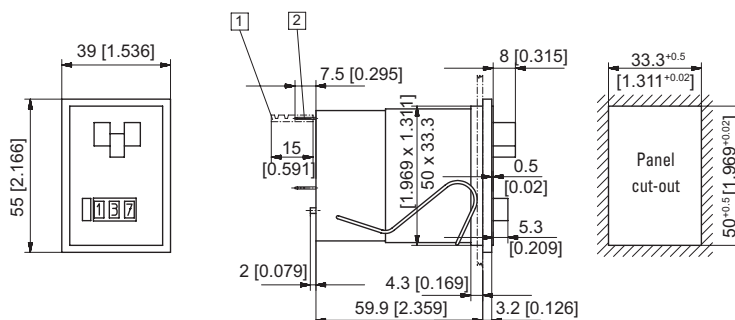
Voltage	Type / Art. no.	MVs13.13 (display 3 digits)			MVs13.13/2 (display 2 digits)		
		24 V	115 V	230 V	24 V	115 V	230 V
DC (25 Hz)		2.300.130.033	—	—	2.310.130.033	—	—
AC (18 Hz)		2.300.130.061	2.300.130.064	2.300.130.066	2.310.130.061	2.310.130.064	2.310.130.066

Preset counters, electromechanical

Standard counters	Subtracting, 2 or 3 digits (AC+DC)	MVs13
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Front bezel with clip mounting,
manual reset

Type MVs13.21, MVs13.21/2

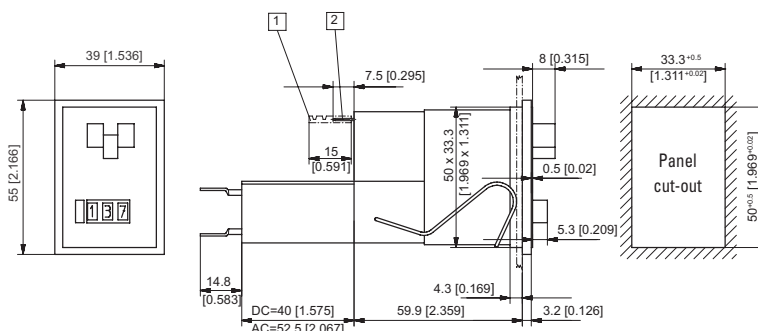


1 Push-on connector 0.8 x 2.8 [0.032 x 0.11] tinned 2 Flat pin 0.8 x 2.8 [0.032 x 0.11] tinned
Color of housing grey (standard)

Voltage	Type / Art. no.	MVs13.21 (display 3 digits)			MVs13.21/2 (display 2 digits)		
		24 V	115 V	230 V	24 V	115 V	230 V
DC (25 Hz)		2.300.210.033	—	—	2.310.210.033	—	—
AC (18 Hz)		2.300.210.061	2.300.210.064	2.300.210.066	2.310.210.061	2.310.210.064	2.310.210.066
Color of housing black: Art. no. 2.3X0.211.XXX							

Front bezel with clip mounting,
manual and electrical reset

Type MVs13.23, MVs13.23/2



1 Push-on connector 0.8 x 2.8 [0.032 x 0.11] tinned 2 Flat pin 0.8 x 2.8 [0.032 x 0.11] tinned
Color of housing grey (standard)

Voltage	Type / Art. no.	MVs13.23 (display 3 digits)			MVs13.23/2 (display 2 digits)		
		24 V	115 V	230 V	24 V	115 V	230 V
DC (25 Hz)		2.300.230.033	—	—	2.310.230.033	—	—
AC (18 Hz)		2.300.230.061	2.300.230.064	2.300.230.066	2.310.230.061	2.310.230.064	2.310.230.066
Color of housing black: Art. no. 2.3X0.231.XXX							

Preset counters, electromechanical

Standard counters	Adding, 5 digits (AC+DC)	BVa15
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The electromechanical preset counters BVa15 (with manual reset) boast a robust construction. They are ideal for use in harsh industrial environments as stand-alone counters or as plug-in variants in combination with additional B, BVa, HB or HVa counters.

Display shows actual count and preset value.

Characteristics

- 5-digit adding preset counter with stationary preset value.
- Manual reset to zero.
- Potential free changeover contact (microswitch) on reaching the preset.
- Contact switches when preset value is reached and remains switched until reset to zero.
- Counters without front bezel fit into bezel F2B and can be combined in RM 50 x 50 mm.

Benefits

- Can be combined with counters of the B, BVa, HB and HVa series using the socket boxes of the pluggable versions.
- Count value and preset constantly visible.
- Versions with transparent cover, sealing cover, zero reset key-lock.

Applications

Piece counting, automation.

Type series

Description

(Reset manual)

Without front bezel, plugs into socket box

Front bezel 1, mounting holes

Mounting clip

Front bezel 3, mounting holes

Type

BVa15.01

BVa15.11

BVa15.21

BVa15.31

Delivery specification

Counter complete with socket box

Order information

- Art. no.
- For special voltages, please give type, voltage and series e.g.: BVa15.31, 12 V DC ...

Further versions, fully assembled (on request)

Counter with lockable reset

BVa15.21 vs



Counter with transparent cover

Dv BVa15.31 lockable



Dvs BVa15.31 key lockable



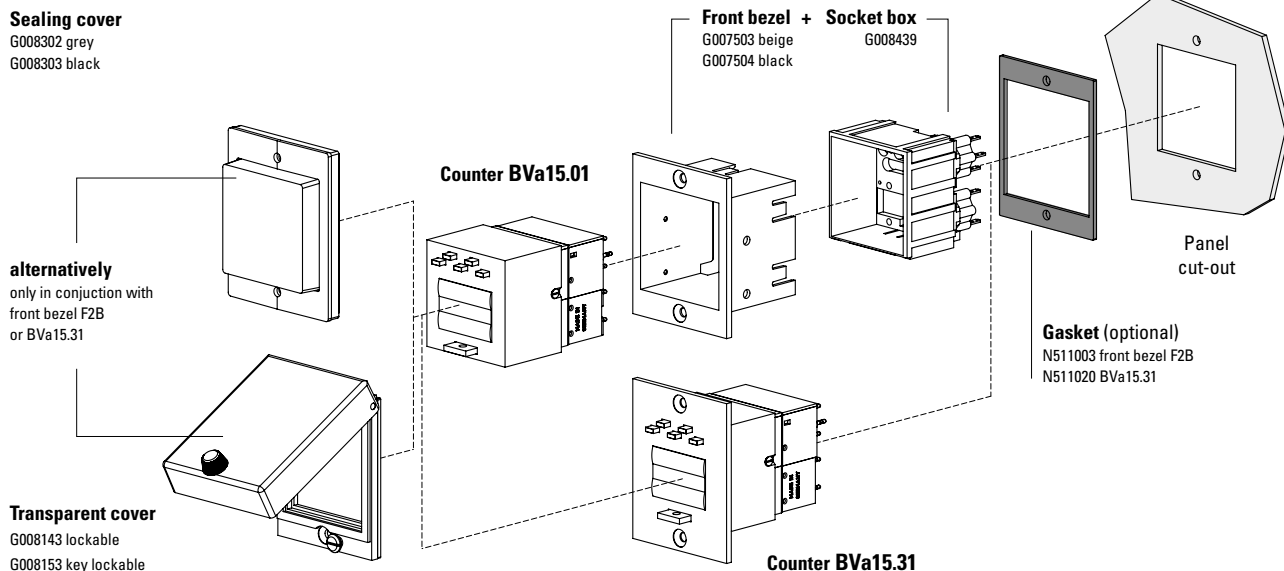
Type / Counting mechanism

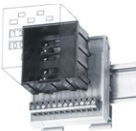
Voltage	Type	Pulse frequency max.	Pulse on time min.	Pulse interval min.	Pulse ratio	On-time	Power consump. approx.	Permi. residual ripple max.	Operating temp. (non-condensing)
V DC	1	25 Hz	24 ms	16 ms	3 : 2	100 %	3 W	48 %	-10°C ... +60°C [+14°F ... +140°F]
V AC	a	18 Hz	27.7 ms	27.7 ms	1 : 1	100 %	3 VA	—	-10°C ... +55°C [+14°F ... +131°F]

Preset counters, electromechanical

Standard counters	Adding, 5 digits (AC+DC)	BVa15
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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Front bezel		F2B	for counter BVa15.01 for cut-out 54 x 49 mm (only in conjunction with socket box G008439)	beige black	G007503 G007504	N511003
Socket box		946.1	for plug-in connection in front bezel F2B	black	G008439	—
Sealing cover IP65		K2	for counter BVa15.31 or for counter BVa15.01 in conjunction with front bezel F2B	transp. /grau transp. /black	G008302 G008303	—
Transparent cover IP65 with gasket		2 Dv	cover lockable for counter BVa15.31 or for counter BVa15.01 in conjunction with front bezel F2B	transp. /black	G008143	—
		2 Dvs	cover key lockable for counter BVa15.31 or for counter BVa15.01 in conjunction with front bezel F2B	transp. /black	G008153	—
Gasket counter			58 x 58 mm [2.28 x 2.28"] 60 x 75 mm [2.36 x 2.95"]	BVa15.21 BVa15.31	N511004 N511020	
Mounting frame		cut-out 50 x 25 mm [1.97 x 0.98"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail, for BVa15.21	chromated	G300003	
DIN rail mount		SR 3	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail		G300002	
Key for key-locking zero reset					G050265	

Preset counters, electromechanical

Standard counters	Adding, 5 digits (AC+DC)	BVa15
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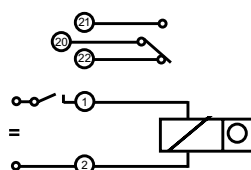
Technical data			
Electrical connection	counter	tinned tabs ø 1.6 mm [0.063"]	
	socket box	with push-on connectors tinned plated tabs 0.8 x 2.8 mm [0.032 x 0.11"]	
Rated voltages	counting mechanism	12 / 24 / 48 / 115 V DC ±10 % 24 / 48 / 115 / 230 V AC ±10 %	
Height of figures	counter	4.5 mm [0.18"]	
	preset	4 mm [0.16"]	
Color of housing	grey	Art. no. x.xxx.xx0.xxx	
	black	Art. no. x.xxx.xx1.xxx	
Color of figures	counter	white on black	
	preset	yellow on black	
Counting mechanism shaft		stainless steel	
Mounting position		any	
Service life		approx. 100 x 10 ⁶ pulses	
Protection		IP40 (front side)	
Weight		approx. 130 g [4.59 oz]	
Device safety	designed to	EN 61010 part 1	
	protection class	2	
		application area	
		pollution level 2	
Test voltage		2000 V, effective	
Switching contact		1 change over contact (micro switch), release in 2nd half-step on the preset number	
Loading (max) (with resistive Load.)	AC	250 V AC	2.0 A
		24 V DC	2.0 A
		60 V DC	0.7 A
		115 V DC	0.4 A
		230 V DC	0.2 A
		Suitable spark quenching is required with inductive load, reducing the max. current to 60 %	

Options		
Key-locking zero reset	housing grey	Art. no.: 2.1X0.XX6.XXX
	housing black	Art. no.: 2.1X0.XX7.XXX
Lockable transparent cover (IP65)	Dv BVa counter with front bezel 3 Art. no.: 2.1X0.7XX.XXX	
Key lockable transparent cover (IP65)	Dvs BVa counter with front bezel 3 Art. no.: 2.1X0.8XX.XXX	
Flexible sealing cover K2 (IP54)	K2 BVa counter with front bezel 3 Art. no.: 2.1X0.6XX.XXX	
Screw terminal connection	Art. no.: 2.XXX.XXX.XXX.023	
Flat pin connection 2.8 x 0.8 mm (on request)	Art. no.: 2.XX7.XXX.XXX	

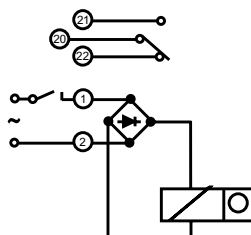
Approvals		
CE compliant in accordance with		
EMC Directive	2014/30/EU	
RoHS Directive	2011/65/EU	
Low Voltage Directive	2014/35/EU	

Connection diagrams

DC



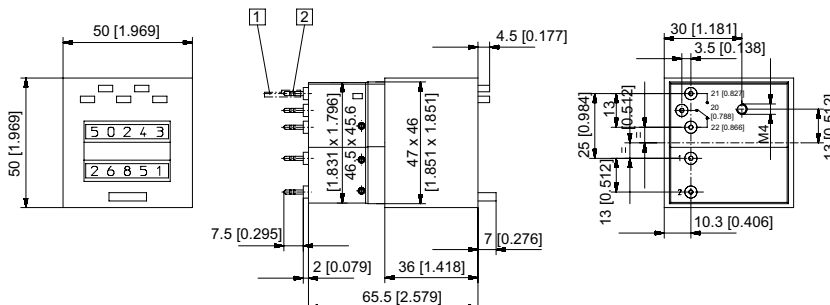
AC



Preset counters, electromechanical

Standard counters	Adding, 5 digits (AC+DC)	BVa15
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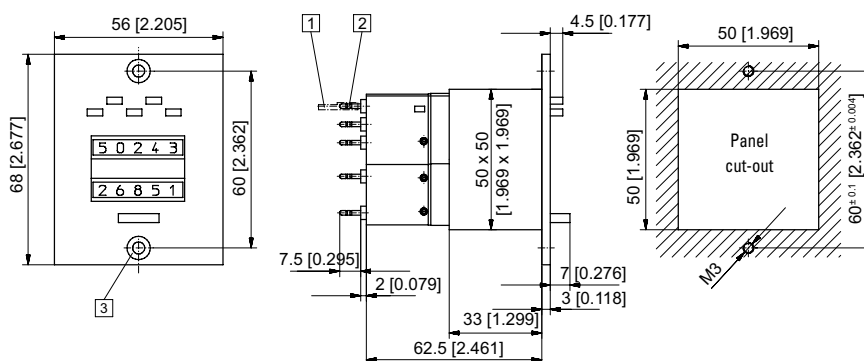
Without front bezel,
plugs into socket box type 946.1
Type BVa15.01



1 Push-on connector $\varnothing$ 1.5 [0.059] tinned 2 Round pin $\varnothing$ 1.6 [0.063] tinned
Color of housing grey (standard)

Type	Voltage	Display	Art. no.			
			24 V	115 V	230 V	
BVa15.01	DC (25 Hz)	5 digits	2.100.010.033	—	—	
	AC (18 Hz)		2.100.010.061	2.100.010.064	2.100.010.066	
Color of housing black: Art. no. 2.1X0.011.XXX						

Front bezel 1,
with mounting holes
Type BVa15.11



1 Push-on connector $\varnothing$ 1.5 [0.059] tinned 2 Round pin $\varnothing$ 1.6 [0.063] tinned 3 Countersinking Af3 DIN 74
Color of housing grey (standard)

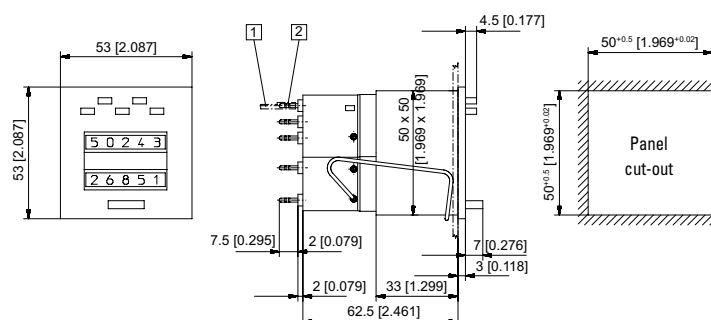
Type	Voltage	Display	Art. no.			
			24 V	115 V	230 V	
BVa15.11	DC (25 Hz)	5 digits	2.100.110.033	—	—	
	AC (18 Hz)		2.100.110.061	2.100.110.064	2.100.110.066	
Color of housing black: Art. no. 2.1X0.111.XXX						

Preset counters, electromechanical

Standard counters	Adding, 5 digits (AC+DC)	BVa15
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With mounting clips

Type BVa15.21



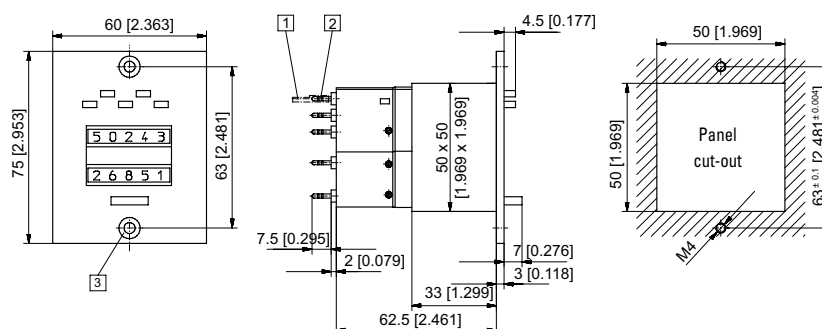
- 1 Push-on connector $\varnothing$ 1.5 [0.059] tinned 2 Round pin $\varnothing$ 1.6 [0.063] tinned

Color of housing grey (standard)

Type	Voltage	Display	Art. no.	24 V	115 V	230 V	
BVa15.21	DC (25 Hz)	5 digits	2.100.210.033	—	—	—	
	AC (18 Hz)		2.100.210.061	2.100.210.064	2.100.210.066 1)		
Color of housing black: Art. no. 2.1X0.211.XXX			Further stock types: Art. no. 2.100.211.033				

Front bezel 3,
with mounting holes

Type BVa15.31



- 1 Push-on connector $\varnothing$ 1.5 [0.059] tinned 2 Round pin $\varnothing$ 1.6 [0.063] tinned 3 Countersinking Af3 DIN 74

Color of housing grey (standard)

Type	Voltage	Display	Art. no.	24 V	115 V	230 V	
BVa15.31	DC (25 Hz)	5 digits	2.100.310.033	—	—	—	
	AC (18 Hz)		2.100.310.061	2.100.310.064	2.100.310.066		
Color of housing black: Art. no. 2.1X0.311.XXX			Further stock types: BVa15.31.4sw 24 V DC / Art. no. 2.107.311.013				

Preset counters, electronic

LCD preset counters	1 or 2 presets – pulse, time – 5 kHz (AC+DC)	Codix 907 / 908
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The pulse and time preset counters Codix 907 and 908 offer all important counter functions with an unbeatable price/performance ratio.

The counters offer easy, user-friendly installation thanks to their minimal installation depth and plug-in screw terminals; the 2-line LCD display is available with optional backlighting, making it even easier to read with just a quick glance.



DC 11 ... 30 V Supply voltage	AC 115 ... 230 V Supply voltage	-10°... +50°C Temperature range	000000 DIN 48x48	Prog Menu-driven programming	IP65 High protection level	max. 5 kHz Count frequency	Plug-in screw terminal	1 or 2 Presets 907: 1 / 908: 2	Multifunctional
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123... 2x6 LCDs LCD display	12...6 Multicolor display
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Powerful

- For pulse, time and position.
- Adding or subtracting.
- Automatic reset when preset is reached, or by key-press or electrically.
- Codix 907: 1 preset / Codix 908: 2 presets.
- 2 x 6-digit display and preset annunciators from -999999 to +999999.
- Display with or without backlighting, 2-color.

Simple

- Plug-in screw terminal.
- Simple menu-driven programming.
- Decade keypad, for each digit one key.
- DC or AC powered.
- Minimum installation depth.
- High protection level (IP65) with integrated front bezel gasket.
- With preset annunciators.

Order code

6.90X.010X.XA0

a Number of presets

- 7 = 1 preset
- 8 = 2 presets

b Outputs

- 0 = relays

c LCD version

- 0 = no backlighting
- 1 = green backlighting
- 4 = 2-color, negative red / green backlighting

d Supply voltage

- 0 = 230 V AC
- 1 = 115 V AC
- 3 = 11 ... 30 V DC

e Input trigger level

- A = 4 ... 30 V DC level

Delivery specification

- Preset counter
- Mounting clip
- 8 pin screw terminal
- 7 pin screw terminal
- Operating instructions

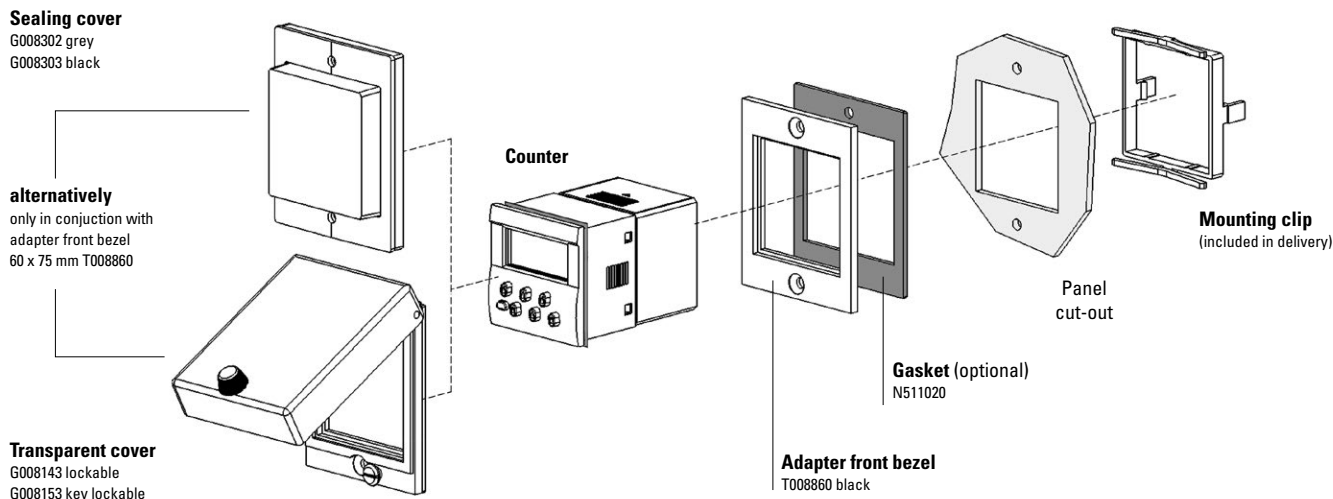
Stock types

- 6.907.0100.3A0
- 6.908.0101.3A0

Preset counters, electronic

LCD preset counters	1 or 2 presets – pulse, time – 5 kHz (AC+DC)	Codix 907 / 908
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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] or ø 50,5 mm [1.99"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black	T008170 T008171	N511017
		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	T008853	N511004
		60 x 75 mm [2.36 x 2.95]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	T008860	N511020
		72 x 72 mm [2.83 x 2.83]	for cut-out 68 x 68 mm [2.68 x 2.68"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black Mating clip	T008176 T008177 T009420	N511016
		ø 72 mm [2.83]	for cut-out ø 60 mm [2.36"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	N510226	–
Sealing cover IP65		K2	only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / grey transparent / black	G008302 G008303	–
Transparent cover IP65		2 Dv (mounted on bezel)	cover lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / black	G008143	–
		2 Dvs (mounted on bezel)	cover key lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / black	G008153	–
Mounting frame		cut-out 50 x 50 mm [2.36 x 2.36]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300003	
Screw terminal (replacement part)			1 ... 8, pitch 3.81	8-pin	N100498	
			9 ... 15, pitch 5.08	7-pin	N100548u002	

incl. in delivery

Preset counters, electronic

LCD preset counters	1 or 2 presets – pulse, time – 5 kHz (AC+DC)	Codix 907 / 908
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Technical data

General technical data			
Display		2 line 2 x 6 digits LCD display upper line 9 mm [0.35"], lower line 7 mm [0.28"], special sign 2 mm high [0.079"]	
	standard	positive green with optional backlighting	
	2-color	upper line: negative, red backlighting lower line: negative, green backlighting	
Operating temperature		-10 °C ... +50 °C [+14 °F ... +122 °F] (non-condensing)	
Storage temperature		-25 °C ... +75 °C [-13 °F ... +167 °F]	
Relative humidity at +40 °C [+104 °F]		93 % (non-condensing)	
Altitude		up to 2000 m [6562']	

Mechanical characteristics			
Protection		IP65 (front side)	
Weight	AC version	approx. 250 g [8.82 oz]	
	DC version	approx. 150 g [5.29 oz]	

Electrical characteristics			
Sensor supply voltage	AC	115/230 V, ±10 %, 50/60 Hz, max. 6.5 VA	
	DC	11 ... 30 V, max. 4 W	
External fuse protection	230 V AC	T 0.1 A	
	115 V AC	T 0.125 A	
	11 ... 30 V DC	T 0.2 A	
Data retention		> 10 years, EEPROM	
Input modes	pulse counter timer	cnt.dir, up.dn, quad FrErun, InpA.InpB., InpB.InpB.	
Sensor supply voltage	AC supply	24 V DC -40/+15 %, 50 mA at 230 V AC, 40 mA at 115 V AC	
	DC supply	max. 50 mA external supply voltage is connected through	
Device safety		designed to protection class application area	EN 61010 part 1 2 pollution level 2

Inputs			
Count inputs		A and B (timer: A = Gate)	
Polarity of the inputs		programmable for all inputs in common, NPN/PNP	
Input resistance		10 kΩ	
Count frequency		max. 5 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)	
Control / Reset input		Lock, Reset	
Min pulse duration of signal and control inputs		statical / 1 ms	
Switching levels with AC/DC supply	4 ... 30 V DC:	low	0 ... 2 V DC
		high	3.5 ... 30 V DC
Pulse shape		variable, Schmitt-Trigger characteristics	

Outputs			
Switching voltage		max. 250 V AC / 110 V DC	
Switching current		max. 3 A AC/DC min. 30 mA DC	
Switching capacity		max. 750 VA / 90 W	
Output 1			
	Mech. service life (switching cycles)	2 x 10 ⁷	
	N° of switching cycles at 3 A / 250 V AC	1 x 10 ⁵	
	N° of switching cycles at 3 A / 30 V DC	1 x 10 ⁵	
	Relay with closing contact, progr. normal closed or normal open.		
Output 2			
	Mech. service life (switching cycles)	20 x 10 ⁶	
	N° of switching cycles at 3 A / 250 V AC	5 x 10 ⁴	
	N° of switching cycles at 3 A/30 V DC	5 x 10 ⁴	
	Relay with changeover contact		
Reaction time of the outputs	pulse counter	< 15 ms	
	timer	< 10 ms	

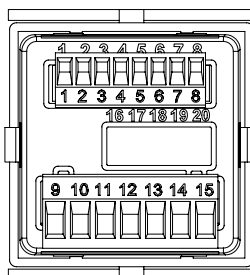
Approvals			
CE compliant in accordance with			
	EMC Directive	2014/30/EU	
	RoHS Directive	2011/65/EU	
	Low Voltage Directive	2014/35/EU	

Preset counters, electronic

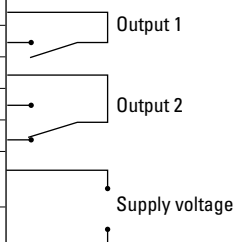
LCD preset counters	1 or 2 presets – pulse, time – 5 kHz (AC+DC)	Codix 907 / 908
----------------------------	---	------------------------

Terminal assignment

Pin	Signal and control inputs
1	Sensor supply voltage
2	GND (0 V DC)
3	INP A (Signal input A)
4	INP B (Signal input B)
5	RESET (Reset input)
6	LOCK (Key locking input)
7	n. c.
8	n. c.

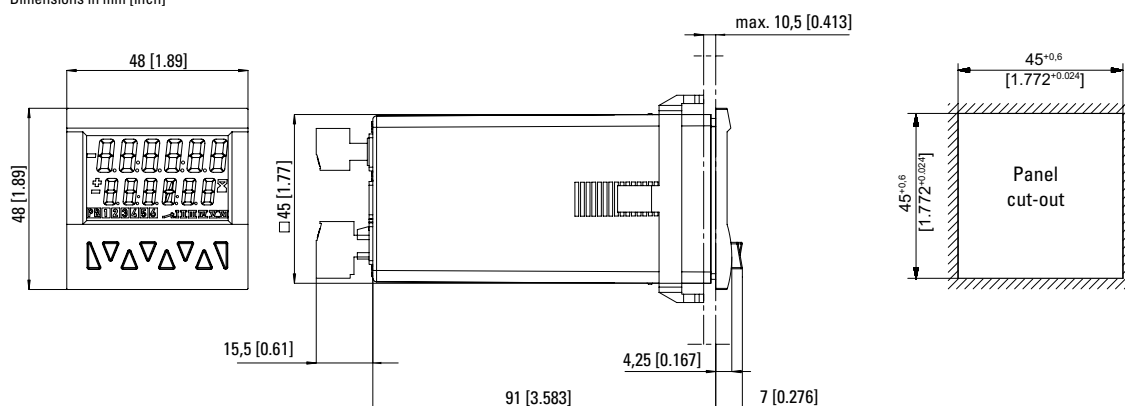


Pin	Version with relays
9	Relay contact C.
10	Relay contact N.O.
11	Relay contact C.
12	Relay contact N.O.
13	Relay contact N.C.
14	AC: 115/230 V AC N~ DC: 11 ... 30 V DC
15	AC: 115/230 V AC L~ DC: GND (0 V DC)



Dimensions

Dimensions in mm [inch]



Preset counters, electronic

LCD preset counters	1 preset – pulse, time (battery)	901
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Type 901 is a simple battery-powered preset pulse counter/timer with 12 ... 250 V AC/DC count and reset inputs or with NPN input. The 6-digit, 2-line LCD display shows the current count value, the preset value, the relay state and the active time measurement.



										
Battery powered	Sensor supply voltage	Max. count frequency	Temperature range	High protection level	DIN front bezel	Multifunctional	Plug-in screw terminal	Menu-driven programming	Decade key entry	Relay output

Powerful

- Count and reset input electrically separated from the counter: input switching levels 12 ... 250 V AC/DC or NPN input signal.
- 2-line LCD display for count and preset. Displays the switching status of the output and the active time measurement.
- Data retention thanks to exchangeable lithium batteries, battery life approx. 8 years.
- Output: relay, programmable as normally open or normally closed.

Simple

- Easy to programme.
- Simple preset entry; one key per decade.
- Plug-in screw terminals.
- Replacement for electromechanical preset counters.
- No external supply voltage necessary.
- Clock function.

Order no.

Type of input

12 ... 250 V AC/DC

NPN input

Order no.

6.901.010.820

6.901.010.850

Stock types

6.901.010.820

6.901.010.850

Delivery specification

- Counter 901
- 2 lithium batteries
- 1 screw terminal
- 1 mounting clip
- 1 operating instructions
- 1 front bezel for screw mounting, panel cut-out 50 x 50 mm [1.97 x 1.97"], T008860
- 1 front bezel for spring clip mount, panel cut-out 50 x 50 mm [1.97 x 1.97"], T008853
- 1 template for panel cut-out

Preset counters, electronic

LCD preset counters	1 preset – pulse, time (battery)	901
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Accessories / Mounting examples

Sealing cover

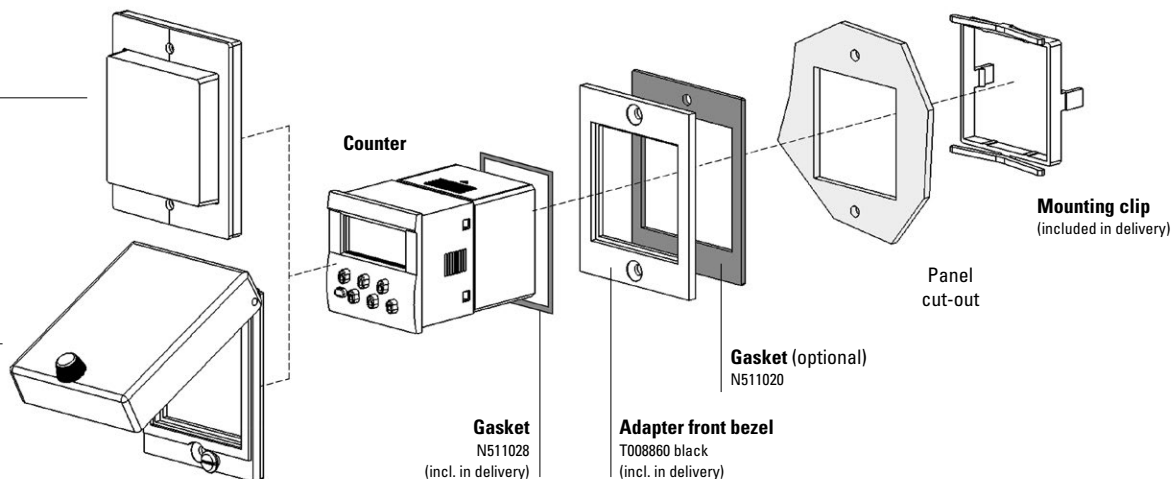
G008302 grey
G008303 black

alternatively

only in conjunction with
adapter front bezel
60 x 75 mm T008860

Transparent cover

G008143 lockable
G008153 key lockable



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] or ø 50,5 mm [1.99"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black	T008170 T008171	N511017
		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	T008853	N511004
		60 x 75 mm [2.36 x 2.95]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	T008860	N511020
		72 x 72 mm [2.83 x 2.83]	for cut-out 68 x 68 mm [2.68 x 2.68"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black Mating clip	T008176 T008177 T009420	N511016
		ø 72 mm [2.83]	for cut-out ø 60 mm [2.36"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	N510226	—
Sealing cover IP65		K2	only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / grey	G008302	—
				transparent / black	G008303	—
Transparent cover IP65		2 Dv (mounted on bezel)	cover lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / black	G008143	—
		2 Dvs (mounted on bezel)	cover key lockable, for cut-out 50 x 50 [1.97 x 1.97], only in conjunction with adapter front bezel 60 x 75 mm T008860	transparent / black	G008153	—
Gasket counter			48 x 48 mm (for installation in adapter front bezel) 49 x 49 mm		N511028 N511033	
Mounting frame		cut-out 50 x 50 mm [2.36 x 2.36]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300003	
Screw terminal (replacement part)			1 ... 7, pitch 5,08	7-pin	N100548	

incl. in delivery

Preset counters, electronic

LCD preset counters	1 preset – pulse, time (battery)	901
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Technical data

General technical data

Display	2 line LCD display, 6 digits 999999; 7 or 4.5 mm [0.28 or 0.18"] high
Operating temperature	-20 °C ... +65 °C [-4 °F ... +149 °F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Relative humidity	< 85 % (non-condensing)
Altitude	up to 2000 m [6562']

Electrical characteristics

Supply voltage	2 pcs user exchangeable lithium- batteries type 1/2 AA lithium 3.6 V
Data retention	min. 8 years at 5 x 10 ⁶ power operations of the output relay and an operating temperature of 25 °C [+104 °F]
Device safety	designed to protection class application area EN 61010-1, EN 61010-2-201 2 (front side) pollution level 2

Mechanical characteristics

Protection	IP65 (front side)
Weight	approx. 80 g

Outputs

Output	bistable relay with potential free contact (programmable as normally closed or normally opened contact)
Max. switching voltage	250 V AC / 30 V DC
Max. switching current	2 A
Max. switching capacity	60 VA / 30 W
Output response time	< 20 ms, max. 4 Hz
Insulation coordination	basic insulation

Inputs

Inputs	reset, count and key lock inputs
Polarity of the inputs (for reset and count/start input)	12 ... 250 V AC/DC NPN bidirectional optocoupler input NPN input activated by transistor or contact
Keyboard lock input	connected to +3 V DC (terminal 1)
Min. pulse duration of the inputs	reset input 50 ms keyboard lock input 15 ms
Switching levels of the inputs	12 ... 250 V AC/DC NPN LOW: < 1 V AC/DC HIGH: 12 ... 250 V AC/DC LOW: 0 ... 0.8 V DC HIGH: 2.5 ... 5 V DC
Input frequency	max. 30 Hz
Input resistance	110 kΩ

Approvals

UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

Preset counters, electronic

LCD preset counters	1 preset – pulse, time (battery)	901
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Programming

The counter is programmed using the keys on the front. The user is guided by plain text on the display.

The following modes are programmable:

1. Function: pulse preset counter or preset timer
2. Count mode (adding or subtracting)
3. Output: permanent signal or timed signal in case of automatic repetition (loop)
4. Output (normally open or normally closed)
5. Timed signal duration (Delay) in case of automatic repetition
0.1 ... 99.9 seconds
6. Decimal point up to max. 5 decimal places (pulse counter)
or up to max. 2 decimal places (preset timer)
7. Time range for the preset timer: seconds minutes, hours

Function of the output

- Adding:
Relay is active, when actual value $\geq$ preset
- Subtracting:
Relay is active, when actual value ≤ 0

In case of automatic repetition, the output signal is a timed signal programmable in 100 ms steps from 0.1 to 99.9 seconds.

A colon is displayed on the lower display line when the relay is activated.

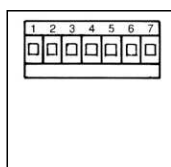
An indicator flashes at one-second intervals when timing is active.

Operating the counter

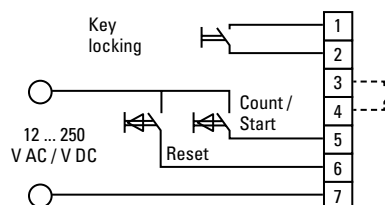
- Setting or resetting:
Press the red SET button or apply a pulse to the reset input to set the counter to zero in the adding mode or to the preset in the subtracting mode.
- Presetting:
The preset value is indicated on the lower row of digits. To set it, use the 6 presetting buttons assigned to each decade. The set value will be accepted with the next set or reset operation.
- Overflow and underflow:
In the adding mode the overflow is 999 999 to 0; in the subtracting mode it is 0 to 999 999. The output signal remains unaffected.
- Lo-bat-indicator:
When the battery charge is too low, Lo-bat appears in the lower display. This flashes on a two second cycle. When lo-bat is indicated, the battery should be changed as soon as possible. If the charge goes on decreasing, the device switches to (noFunc) "no function" mode and must be reprogrammed.
- Changing the battery:
The unit retains the programmed values if the batteries are replaced within 2 minutes. Otherwise, the device must be re-parameterized.
- Counting:
By means of positive pulses (12 ... 250 VAC) or by a NPN input pulse. Time counting remains active as long as the counter input is active (preset timer).

Terminal assignment 12 ... 250 V AC/DC

Pin	Inputs / outputs
1	+3 V DC for terminal 2
2	Keyboard lock-input
3	Relay contact
4	Relay contact
5	AC/DC optocoupler count input
6	AC/DC optocoupler reset input
7	Common AC/DC input for terminal 6 and 5

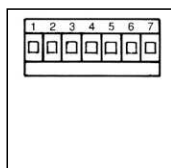


Example of connection 12 ... 250 V AC/DC

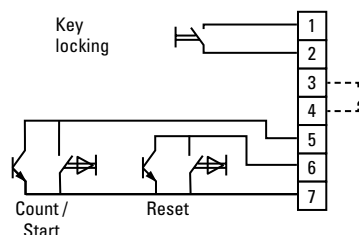


Terminal assignment NPN

Pin	Inputs / outputs
1	+3 V DC for terminal 2
2	Keyboard lock-input
3	Relay contact
4	Relay contact
5	NPN count/start input
6	NPN reset input
7	Common AC/DC input for terminal 6 and 5



Example of connection NPN



Preset counters, electronic

LCD preset counters

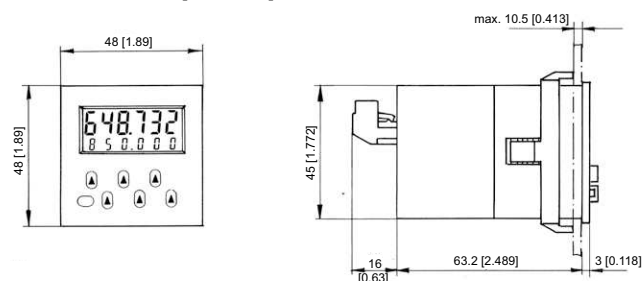
1 preset – pulse, time (battery)

901

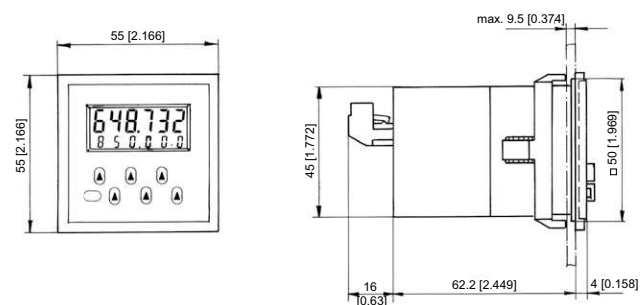
Dimensions

Dimensions in mm [inch]

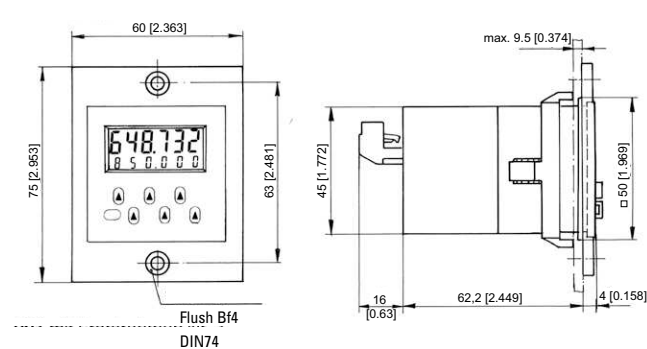
Panel cut-out 45 x 45 [1.77 x 1.77]



With front bezel 55 x 55 [2.17 x 2.17], panel cut-out 50 x 50 [1.97 x 1.97]



With front bezel 60 x 75 [2.36 x 2.95], panel cut-out 50 x 50 [1.97 x 1.97]



Multifunction devices, electronic

LCD touch multifunction preset counters

Pulse, frequency, time (also reciprocal) – (AC+DC)

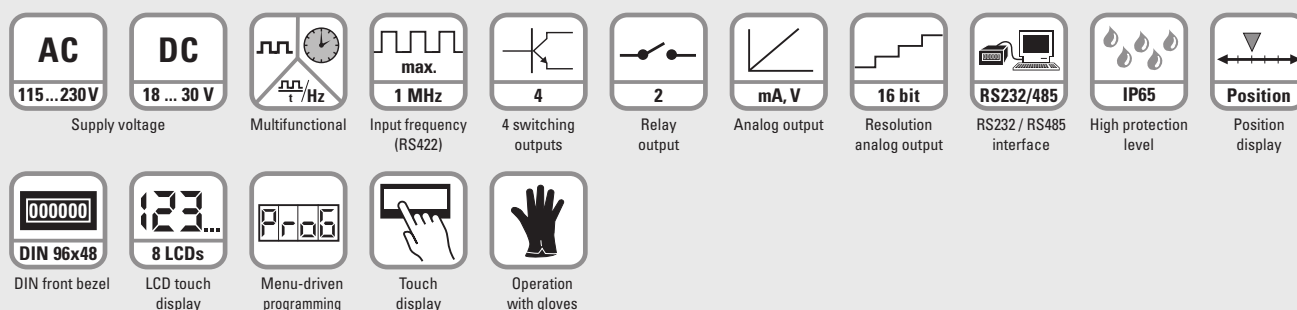
571T



The multifunction preset counter 571T with its max. 250 kHz count frequency is ideal for fast counting tasks. It can also be used as a tachometer, short time meter, stop-watch or to measure machine cycle times or throughput times.

Output options include 4 limit values, analog output and RS232 or RS485 interface.

This device is thus able to carry out virtually all count, measurement and control tasks.



Characteristics

- Fast count input, works with our Limes measuring system (250 kHz/HTL, 1 MHz/RS422).
- 4 switching outputs to work as limit values (reaction time < 1 ms).
- Scalable analog output (reaction time < 150 ms), resolution 16 bit, -10 ... +10 V, 0 ... 20 mA or 4 ... 20 mA.
- Serial interface RS232 or RS485 for reading data in and out.
- Sensor power supply 24 V DC / 150 mA (AC version) or $U_B - 1 V$ / max. 250 mA (DC version).
- 96 x 48 mm DIN housing, IP65.
- Touch display with 8-digit display value and menu-driven programming.
- 2 relay outputs that can be assigned to the limit values.

Benefits

- AC and DC supply voltage in one unit.
- Measuring function can be programmed for RPM, speed, speed from elapsed time, machine cycle time, throughput time (reciprocal rotary speed), as well as numerous count and stop-watch functions.
- 4 switching outputs; can also be programmed as a tracking preset.
- Freely programmable.
- Large 13 mm high LCD display, 8-digit, with adjustable brightness. Tri-color – red / green / yellow – programmable.
- Display linearization with teach function.

Multifunctional display

Large-scale 4-digit display over the whole display surface.

2-line display modes for the simultaneous display of 2 separate measured or calculated values.

Color change of the display to green, yellow or red.

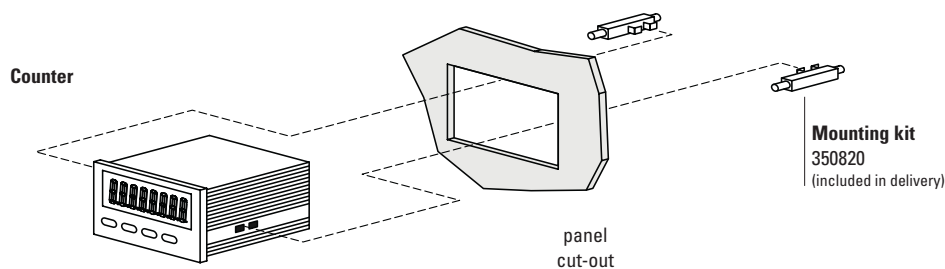


Multifunction devices, electronic

LCD touch multifunction preset counters	Pulse, frequency, time (also reciprocal) – (AC+DC)	571T
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Order code		6.571T . 01 X . XXX
a Relay outputs 0 = 2 relay outputs 2 = without output	c Further options 0 = HTL count inputs (standard) A = RS422 / HTL differential / HTL count inputs (option)	d Electrical outputs 0 = none 1 = RS232, 4 switching outputs 2 = RS232, 4 switching outputs, analog output 3 = RS485, 4 switching outputs 4 = RS485, 4 switching outputs, analog output
b Supply voltage 3 = 18 ... 30 V DC E = 18 ... 30 V DC + 115 ... 230 V AC	Delivery specification · Display 571T · Gasket · Mounting kit · Manual German/English	

Accessories / Mounting examples



		Type / size	Description		Order no.	
Mounting kit			1 kit consists of 2 latch hooks		350820	
Mounting frame		cut-out 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	G300005	—
Software for parameter setting OSxx			https://de/docu-finder search box: OS1			

incl. in delivery

Multifunction devices, electronic

LCD touch multifunction preset counters	Pulse, frequency, time (also reciprocal) – (AC+DC)	571T
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Technical data

General technical data	
Display	LCD touch display, 13 mm high 8 decades + sign, 3-color
Operating temperature	-20 °C ... +60 °C [-4 °F ... +140 °F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Altitude	up to 2000 m [6562']

Electrical characteristics	
Supply voltage	18 ... 30 V DC, with reverse polarity protection (rated voltage 24 V DC) 115 ... 230 V AC, 50/60 Hz (option)
Current consumption DC	100 mA, without load
Power consumption AC	approx. 3 VA, without load
Auxiliary voltage for sensors (with RS 422 switchable from 24 V DC to 5 V DC / 250 mA)	
AC supply	24 V DC $\pm 15\%$, 150 mA (up to +45 °C) 80 mA (from +46 °C)
DC supply	U _B - 1 V, 250 mA
Device safety	designed to EN 61010 part 1 protection class 2 application area pollution level 2

Mechanical characteristics	
Housing	ABS UL94-V-0
Weight	approx. 200 g
Protection	IP65 (front side) IP20 (rear side)
Terminals	max. 1.5 mm ²

Inputs	
2 incremental inputs (A, B)	
HTL (standard)	pulse input frequency max. 250 kHz input level Low: 0 ... 3 V / High: 9 ... 30 V load max. 6 mA / R _i > 5 kΩ / 470 pF
4 incremental inputs (A, /A, B, /B) RS422 / HTL differential / HTL PNP-NPN (option)	
input frequency	RS422: max. 1 MHz HTL differential: max. 500 kHz HTL: max. 250 kHz
input level	RS422: > 0.5 V HTL differential: > 2 V HTL: Low 0 ... 3 V / High 9 ... 30 V
load	max. 3 mA / R _i > 10 kΩ / 47 pF
3 control inputs (Cnt 1 - 3)	
input frequency	PNP max. 10 kHz
input level	HTL: Low 0 ... 3 V / High 9 ... 30 V
load	max. 2 mA / R _i > 15 kΩ / 470 pF
Accuracy frequency	± 1 ppm ± 1 digit

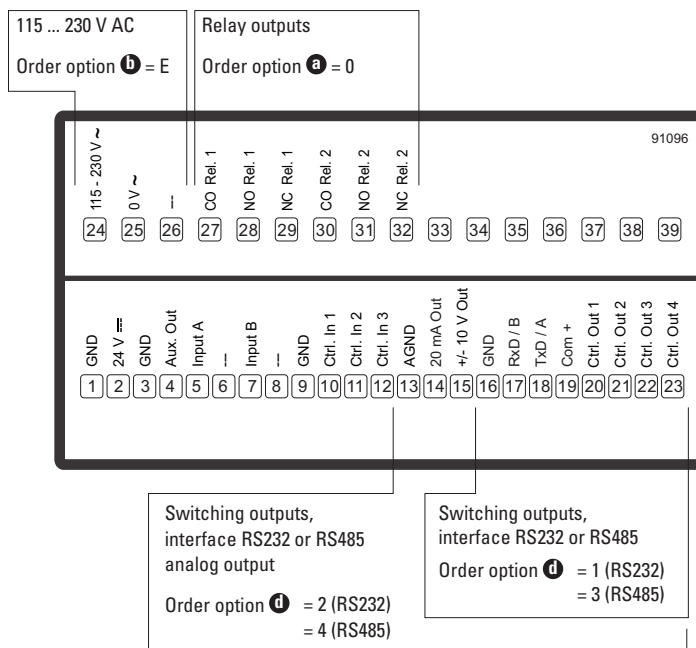
Outputs (option)	
4 switching outputs	5 ... 30 V DC/200 mA (PNP) reaction time < 1 ms
Interface	RS232 or RS485 Drivecom protocol / Modbus / Printer 9600 ... 38400 Baud
Analog output	-10 ... +10 V (max. 2 mA) or 0 ... 20 mA, 4 ... 20 mA (max. 270 Ω) resolution 16 bit (15 bit + sign) accuracy $\pm 0.1\%$ reaction time < 150 ms
Relay output	2 changeover contacts (potential free) max. 250 V AC / 3 A / 750 VA max. 150 V DC / 2 A / 50 W reaction time < 20 ms

Approvals	
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

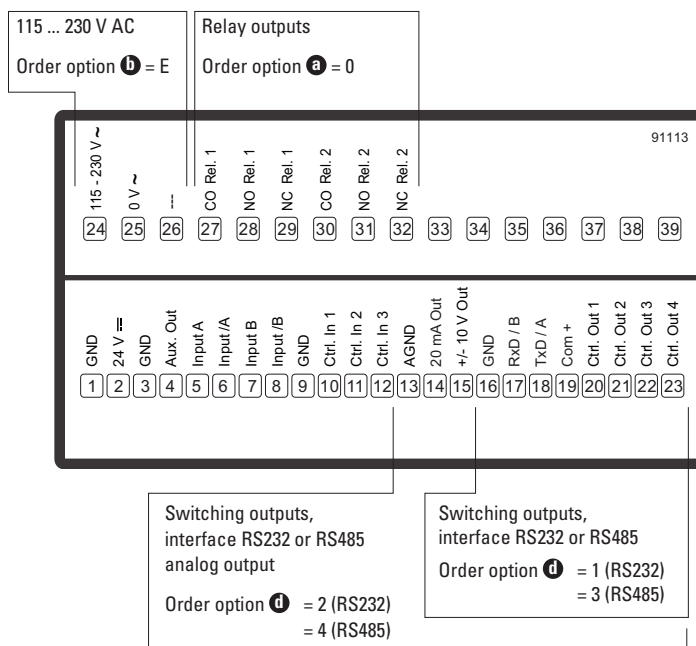
Multifunction devices, electronic

LCD touch multifunction preset counters Pulse, frequency, time (also reciprocal) – (AC+DC) 571T

Terminal assignment HTL (standard)

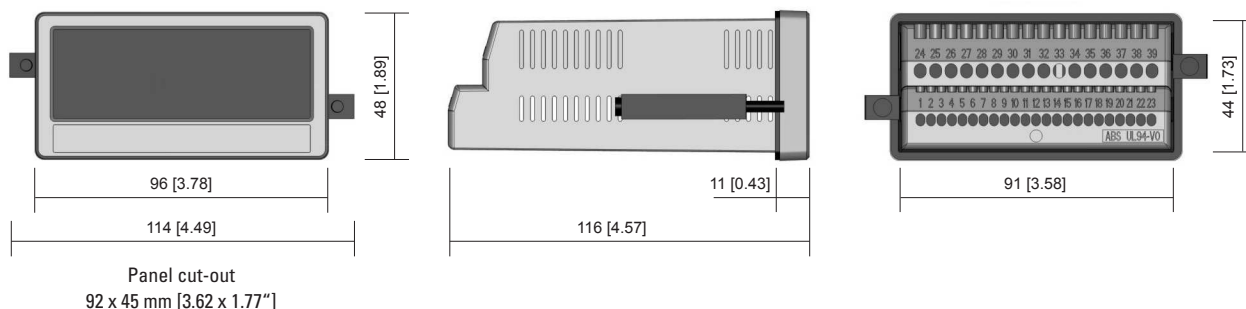


Terminal assignment RS422 / HTL differential / HTL (option)



Dimensions

Dimensions in mm [inch]



Position displays with limits

LCD touch position preset counters

SSI absolute encoder display (AC+DC)

570T



The fast SSI display type 570T is designed for absolute SSI encoders with a resolution up to 32 bits. It can be used as either a master or a slave display.

Thanks to simple bit assignment and bit blanking the display, which can be scaled and linearized, can also be cascaded, in order to extend the display range as desired. Output options include 4 limit values, analog output or RS232 or RS485 interface.



AC 115...230V Supply voltage	DC 18 ... 30 V Supply voltage	SSI SSI input	max. 1 MHz Count frequency	4 4 switching outputs	2 Relay output	mA, V Analog output	16 bit Resolution analog output	RS232/485 RS232 / RS485 interface	IP65 High protection level	Position Position display
DIN 96x48 DIN front bezel	8 LCDs LCD touch display	Prog Menu-driven programming	SSI Display linearization	Touch Touch display	Glove Operation with gloves					

Characteristics

- Suitable for SSI-protocols from 8 up to 32 bits.
- 4 switching outputs to work as limit or preset values (reaction time < 1 ms), also with programmable tracking preset.
- Scaleable analog output (reaction time < 150 ms), resolution 16 bit, -10 ... +10 V, 0 ... 20 mA or 4 ... 20 mA.
- Serial interface RS232 or RS485 for reading data in and out.
- Version with 2 relay outputs as limit values or presets; can also be programmed as tracking preset.
- Gray or binary code.
- 96 x 48 mm DIN-housing, IP65.
- New: additional speed display.

Benefits

- AC and DC supply voltage in one unit.
- Master- or slave mode.
- Screw terminal connection.
- SSI-clock frequency from 100 Hz up to 1 MHz.
- Display may be adjusted using scaling- and offset-features.
- Large 13 mm high LCD display, 8-digit, with adjustable brightness. Tri-color – red / green / yellow – programmable.
- Round-loop function.
- 24-point linearization.
- bit blanking.
- Display of position and speed.

Multifunctional display

Large-scale 4-digit display over the whole display surface.

2-line display modes for the simultaneous display of 2 separate measured or calculated values.

Color change of the display to green, yellow or red.

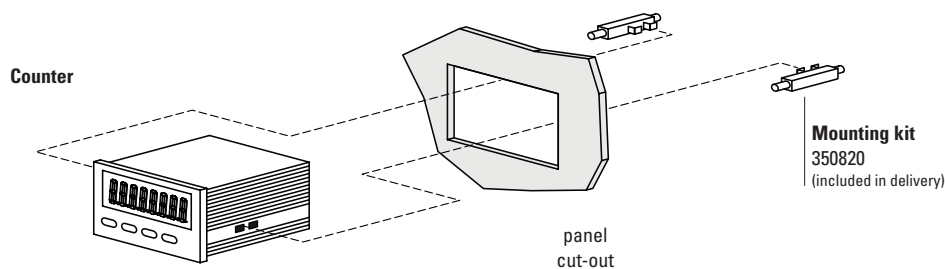


Position displays with limits

LCD touch position preset counters	SSI absolute encoder display (AC+DC)	570T
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Order code		6.570T . 01 X . XXX
		a b c d
a Relay outputs 0 = 2 relay outputs 2 = without output	c Further options 0 = standard A = with wire break monitoring	d Electrical outputs 0 = none 1 = RS232, 4 switching outputs 2 = RS232, 4 switching outputs, analog output 3 = RS485, 4 switching outputs 4 = RS485, 4 switching outputs, analog output
b Supply voltage 3 = 18 ... 30 V DC E = 18 ... 30 V DC + 115 ... 230 V AC	Delivery specification · Display 570T · Gasket · Mounting kit · Manual German/English	

Accessories / Mounting examples



		Type / size	Description		Order no.	
Mounting kit			1 kit consists of 2 latch hooks		350820	
Mounting frame		cut-out 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	G300005	—
Software for parameter setting OSxx			https://de/docu-finder search box: OS1			

incl. in delivery

Position displays with limits

LCD touch position preset counters	SSI absolute encoder display (AC+DC)	570T
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Technical data

General technical data

Display	LCD touch display, 13 mm high 8 decades + sign, 3-color
Operating temperature	-20 °C ... +60 °C [-4 °F ... +140 °F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Altitude	up to 2000 m [6562']

Electrical characteristics

Supply voltage	18 ... 30 V DC, with reverse polarity protection (rated voltage 24 V DC) 115 ... 230 V AC, 50/60 Hz (option)
Current consumption DC	100 mA, without load
Power consumption AC	approx. 3 VA, without load
Auxiliary power supply (for sensors) (in case of wire break monitoring, switchable from 24 V DC to 5 V DC / 250 mA)	
AC supply	24 V DC $\pm 15\%$, 150 mA (up to +45 °C) 80 mA (from +46 °C)
DC supply	U _B - 1 V, 250 mA
Device safety	designed to EN 61010 part 1 protection class 2 application area pollution level 2

Mechanical characteristics

Housing	ABS UL94-V-0
Weight	approx. 200 g
Protection	IP65 (front side) IP20 (rear side)
Terminals	max. 1.5 mm ²

Inputs

SSI interface	clock frequency	differential RS422 input/output 100 Hz ... 1 MHz
	input level	RS422: > 0.5 V
	load	max. 3 mA / R _i > 10 kΩ / 47 pF
3 control inputs (Cnt 1 - 3)	input frequency	PNP max. 10 kHz
	input level	HTL: Low 0 ... 3 V / High 9 ... 30 V
	load	max. 2 mA / R _i > 15 kΩ / 470 pF

Outputs (option)

4 switching outputs	5 ... 30 V DC/200 mA (PNP) reaction time	< 1 ms
Interface	RS232 or RS485 Drivecom protocol / Modbus / Printer 9600 ... 38400 Baud	
Analog output	-10 ... +10 V (max. 2 mA) or 0 ... 20 mA, 4 ... 20 mA (max. 270 Ω) resolution accuracy reaction time	16 bit (15 bit + sign) $\pm 0.1\%$ < 150 ms
Relay output	2 changeover contacts (potential free) max. 250 V AC / 3 A / 750 VA max. 150 V DC / 2 A / 50 W reaction time	< 20 ms

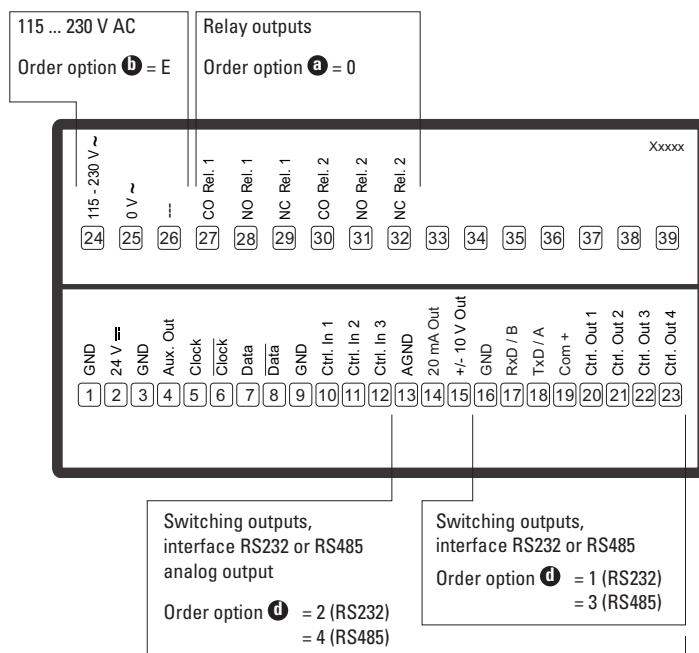
Approvals

CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

Position displays with limits

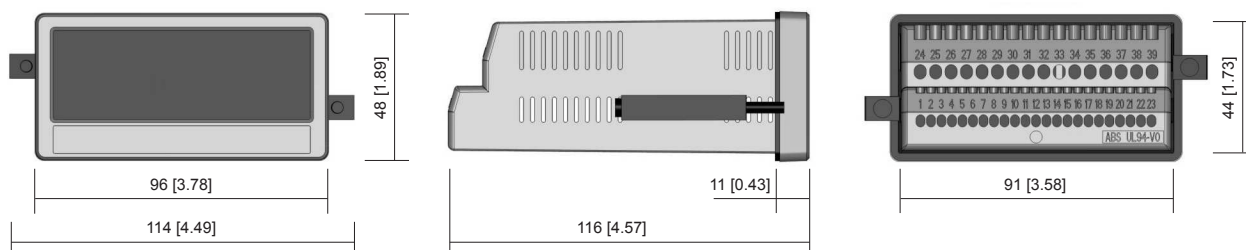
LCD touch position preset counters	SSI absolute encoder display (AC+DC)	570T
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Terminal assignment



Dimensions

Dimensions in mm [inch]



Panel cut-out
92 x 45 mm [3.62 x 1.77"]



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