

Тахометры с ограничением Codix 923, Codix 924, Codix 560, тахометры без ограничения Codix 522, Codix 542, Codix 136

Технические характеристики

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Frequency displays / tachometers

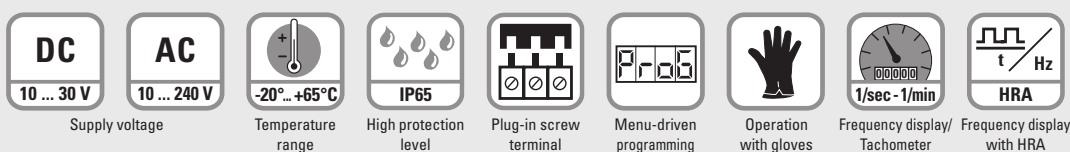
LED frequency displays

Measuring range 1/min or 1/sec HRA-measurement (AC+DC)

Codix 542



The Codix 542 is a voltage powered frequency display / tachometer, with 6-digit LED display for NPN, PNP input signals. The display in 1/min or 1/sec is freely scalable for fast and slow count pulses – with fast HRA measurement system (High Rate Accuracy).



Powerful

- Very bright LED display, 14 mm high.
- Fast count input – input frequency max. 60 kHz.
- Robust housing – IP65 protected.
- Very accurate precise frequency measurement principle (HRA - High Rate Accuracy System)
Frequencies up to 38 Hz are calculated using time-interval (period duration) measurement. Frequencies > 38 Hz are calculated using a special time base (gate time) measurement. A very high accuracy of < 0.1 % is achieved, even with very short gate times. The resulting measurement is available after a max. of 50 ms.

User-friendly and universal

- Large keys – can also be operated when wearing gloves.
- Simple uniform menu-driven programming and operation. Possible to enter the programming also during operation with a confirmation prompt.
- Programmable decimal point, can be set from 0.0 to 0.000 (this determines the resolution).
- As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available.
- Individually programmable scaling – multiplication and division factor (0.0001 to 99.9999), to display corresponding engineering units, e.g. frequency in Hz and speed in RPM.
- Programmable delay until 0 is displayed.
- Display in 1/min or 1/sec.
- AC or DC supply voltage with sensor supply voltage.
- Optional output for zero-speed monitoring.

Order code

6.542 . 01 X . X X 0

a Output

- 1 = Optocoupler output
- 2 = No output

b Supply voltage

- 0 = 100 ... 240 V AC, ±10 %
- 3 = 10 ... 30 V DC

c Input switching level

- 0 = Standard level (HTL)
- A = 4 ... 30 V DC level

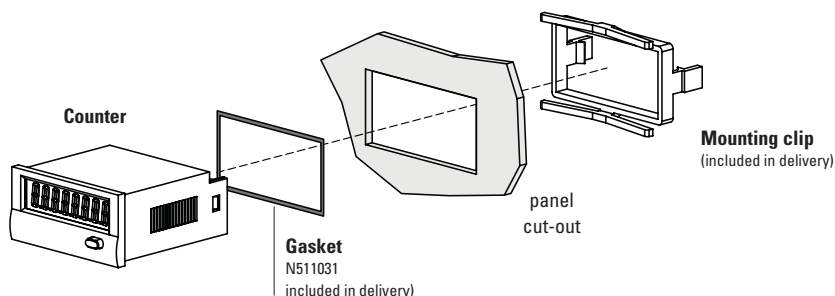
Delivery specification

- Digital display
- Mounting clip
- Gasket
- Instruction manual, multilingual

Frequency displays / tachometers

LED frequency displays	Measuring range 1/min or 1/sec HRA-measurement (AC+DC)	Codix 542
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Accessories / Mounting examples



		Type / size	Description		Order no.	
Gasket counter			96 x 49 mm [3.78 x 1.93"]		N511031	
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	
Screw terminal (Replacement part)			1 ... 7, pitch 3.81 1 ... 2, pitch 5.08	7 pin 2 pin	N100387 N100133	
						incl. in delivery

Technical data

General technical data	
Display	6 digit, red 7 segment LED display; 14 mm [0.55"] high
Data backup	EEPROM
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	10 ... 30 V DC, with reverse polarity protection 100 ... 240 V AC, ± 10 %
Current consumption	max. 50 mA, 8 VA
Device safety	designed to protection class application area EN 61010 part 1 2 pollution level 2

Mechanical characteristics	
Housing	front panel mount 96 x 48 mm [3.74 x 1.89"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 150 g [5.29 oz]

Outputs	
Sensors supply voltage (AC version)	24 V DC ± 15 %/100 mA
Output power optocoupler	max. 30 V DC, 10 mA

Inputs	
Polarity of inputs	programmable, NPN or PNP for all inputs
Input resistance	approx. 5 k Ω
Counting frequency ¹⁾	max. 60 kHz, can be damped to 30 Hz
Measurement principle / Accuracy	Gate and/or time interval (period duration) measurement, with high accuracy < 0.1 % (HRA)
Input switching level standard version (HTL)	
DC supply voltage	LOW 0 ... 0.2 x U _B [V DC] HIGH 0.6 x U _B ... 30 V DC
AC supply voltage	LOW 0 ... 4 V DC HIGH 12 ... 30 V DC
Input switching level at 4 ... 30 V DC	
	LOW 0 ... 2 V DC HIGH 4 ... 30 V DC

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

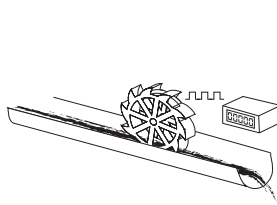
1) Please refer to the manual

Frequency displays / tachometers

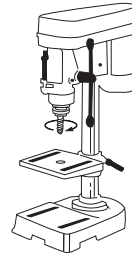
LED frequency displays **Measuring range 1/min or 1/sec HRA-measurement (AC+DC)** **Codix 542**

Applications for speed and frequency displays

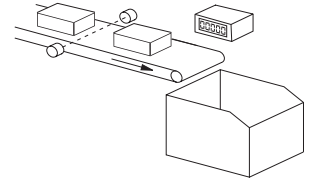
- Rotary speed applications, e.g. OEM equipment or retrofitting to drilling machines
- OEM equipment for flow rate measuring, e.g. current flow rate; production data such as volume/time
- Speed applications on motors, turbines, machines; feed-rate measurement
- Recording of production rates
- Frequency measurement



Mass flow rate

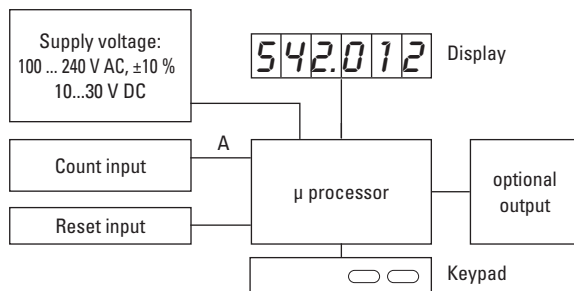


Drilling machine head, rotary speed

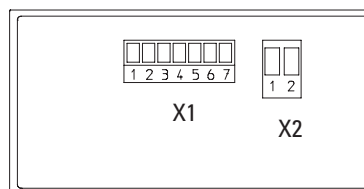


Production rate

Block diagram



Terminal assignment



Connection X1

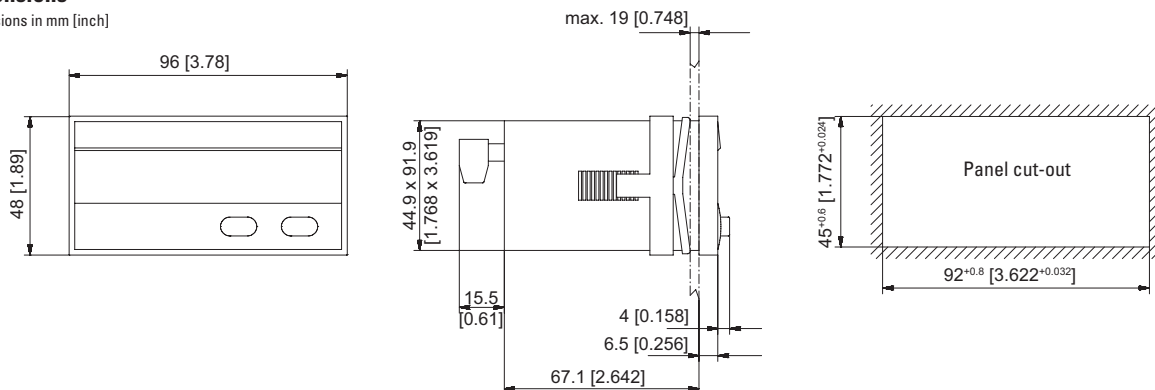
PIN	AC version	DC version
1	Optocoupler-output	Collector
2	Optocoupler-output	Emitter
3	n.c.	
4	n.c.	
5	INP A	
6	GND out	n.c.
7	+24 V out	n.c.

Connection X2

PIN	AC version	DC version
1	100 ... 240 V AC, ±10 %	0VDC (GND)
2	100 ... 240 V AC, ±10 %	10 ... 30 V DC

Dimensions

Dimensions in mm [inch]



Frequency displays / tachometers

LED frequency displays

Measuring range 1/min or 1/sec HRA-measurement (DC)

Codix 522



The Codix 522 is a simple voltage powered frequency display / tachometer.

Display in 1/min or 1/sec, freely scalable, for fast and slow count pulses, with 6-digit LED display for NPN, PNP input signals, with fast HRA measurement system (High Rate Accuracy).



DC 10 ... 30 V	DIN 48x24 000000	-20...+65°C Temperature range	IP65 High protection level	Prog Menu-driven programming	1/sec - 1/min Frequency display/ Tachometer	HRA Frequency display with HRA
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Powerful

- Very bright LED display, 8 mm high.
- Fast count input – input frequency max. 60 kHz.
- Robust housing – IP65 protected.
- Very accurate precise frequency measurement principle (HRA - High Rate Accuracy System)
Frequencies up to 38 Hz are calculated using time-interval (period duration) measurement. Frequencies > 38 Hz are calculated using a special time base (gate time) measurement. A very high accuracy of < 0.1 % is achieved, even with very short gate times. The resulting measurement is available after a max. of 50 ms.

User-friendly and universal

- Large keys – can also be operated when wearing gloves.
- Simple uniform menu-driven programming and operation. Possible to enter the programming also during operation with a confirmation prompt.
- Individually programmable scaling – multiplication and division factor (0.0001 to 99.9999), to display corresponding engineering units, e.g. frequency in Hz and speed in RPM.
- Programmable decimal point, can be set from 0.0 to 0.000 (this determines the resolution).
- Programmable delay until 0 is displayed.
- Display in 1/min or 1/sec.
- As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available.
- Optional output for zero-speed monitoring.

Order code

6.522 . 01 X . 3 X 0

a Output

- 1 = optocoupler output
- 2 = no output

b Input switching level

- 0 = Standard (HTL)
- A = 4 ... 30 V DC level

Stock types

6.522.012.300

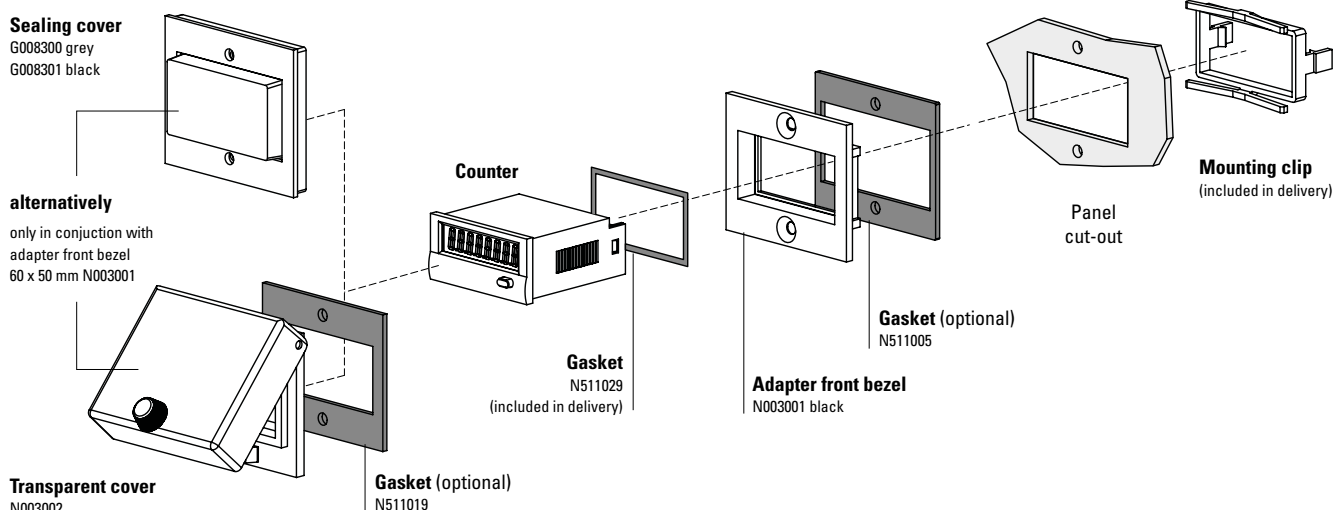
Delivery specification

- Pulse counter
- Mounting clip
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Gasket
- Instruction manual, multilingual

Frequency displays / tachometers

LED frequency displays	Measuring range 1/min or 1/sec HRA-measurement (DC)	Codix 522
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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		53 x 28 mm [2.09 x 1.10"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black anthracite	T008165 T008180	N511015
		56 x 40 mm [2.20 x 1.57"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black anthracite	T008161 T008181	N511045
		72 x 36 mm [2.83 x 1.42"]	for cut-out 68 x 33 mm [2.68 x 1.30"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black and silver anodised as set	162704Set	—
		60 x 50 mm [2.36 x 1.97"]	for cut-out 54 x 29 mm [2.13 x 1.14"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black	N003001	N511005
		48 x 48 mm [1.89 x 1.89"]	for cut-out 45 x 45 mm [1.77 x 1.77"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	T008883	—
Sealing cover IP65		K1	only in conjunction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	G008300 G008301	—
Transparent cover IP65		1 Dv (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjunction with adapter front bezel 60 x 50 mm N003001	transparent / black	N003002	N511019
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		N511029 N511034	
Mounting frame		cut-out 50 x 25 mm [1.97 x 0.98"]	via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300004	—
Enclosure blind		48 x 24 mm [1.89 x 0.94"]	for cut-out 45 x 22.2 mm [1.77 x 0.94"] and cut-out 50 x 25 mm [1.97 x 0.98"]	anthracite	G003836	—

incl. in delivery

Frequency displays / tachometers

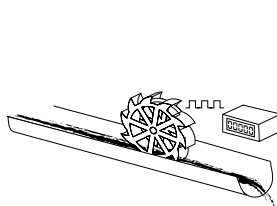
LED frequency displays	Measuring range 1/min or 1/sec HRA-measurement (DC)	Codix 522
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Technical data

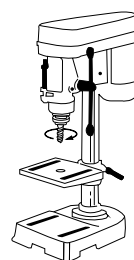
General technical data	
Display	6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup	EEPROM
Operating temperature	10 ... 26 V DC -20 °C ... +65 °C [-4 °F ... +149 °F] > 26 ... 30 V DC -20 °C ... +55 °C [-4 °F ... +131 °F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13 °F ... +158 °F]
Electrical characteristics	
Supply voltage	10 ... 30 V DC, with integrated reverse polarity protection
Current consumption	max. 50 mA
Mechanical characteristics	
Housing	front panel mount 48x24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Vibration resistance acc. to EN 60068-2-6	10 ... 55 Hz / 1 mm [0.04"] / 30 min
Shock resistance acc. to EN 60068-2-27	100 G: 2 ms 10 G: 6 ms
Inputs	
Polarity of inputs	programmable, NPN or PNP
Input resistance	approx. 5 kΩ
Counting frequency	max. 60 kHz, can be damped to 30 Hz
Measurement principle / Accuracy	Gate and/or time interval (period duration) measure ment, with high accuracy <0.1 % (HRA)
Input switching level (HTL)	LOW 0 ... 0.2 x U _B [V DC] HIGH 0.6 x U _B ... 30 V DC
Input switching level at 4 ... 30 V DC	LOW 0 ... 2 V DC HIGH 4 ... 30 V DC
Outputs (optional)	
Optocoupler output	max. 30 V DC, 10 mA
Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	EMC Directive 2014/30/EU RoHS Directive 2011/65/EU

Applications for speed and frequency displays

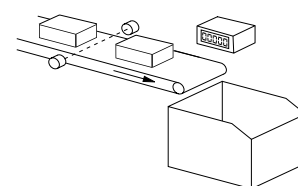
- Rotary speed applications, e.g. OEM equipment or retrofitting to drilling machines
- OEM equipment for flow rate measuring, e.g. current flow rate; production data such as volume/time
- Speed applications on motors, turbines, machines; feed-rate measurement
- Recording of production rates
- Frequency measurement



Mass flow rate

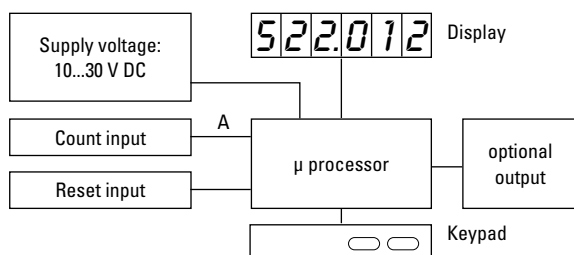


Drilling machine head, rotary speed



Production rate

Block diagram



Terminal assignment

1	2	3	4	5

PIN	without optocoupler
1	10 ... 30 V DC
2	0 V GND
3	INP
4	—
5	—

1	2	3	4	5	6	7

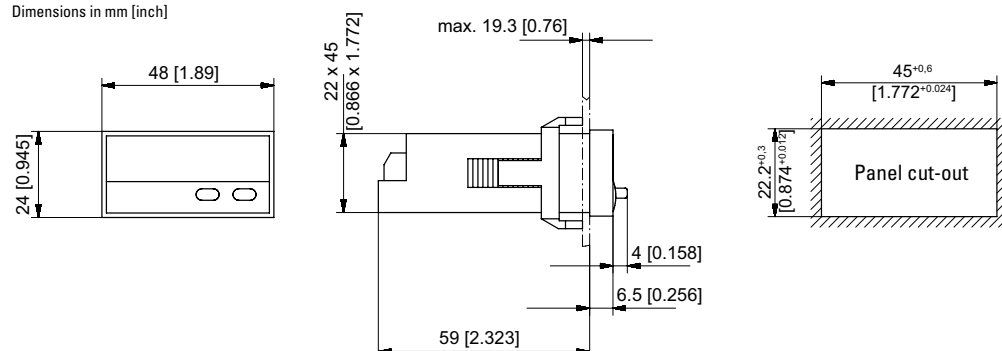
PIN	with optocoupler (NPN)
1	10 ... 30 V DC
2	0 V GND
3	INP
4	—
5	—
6	Emitter
7	Collector

Frequency displays / tachometers

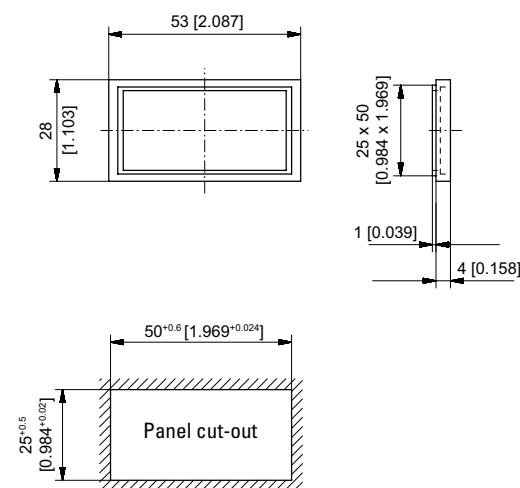
LED frequency displays	Measuring range 1/min or 1/sec HRA-measurement (DC)	Codix 522
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Dimensions

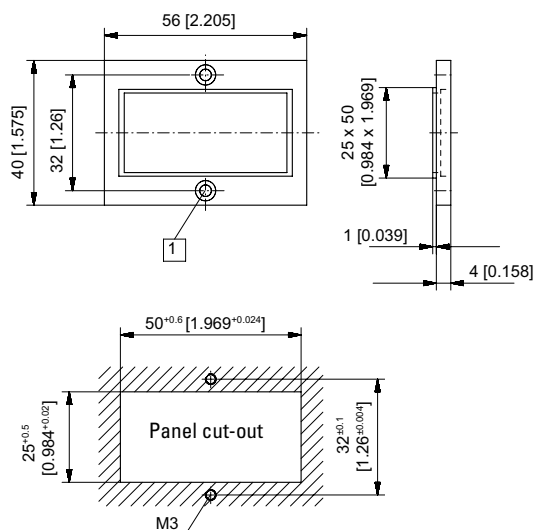
Dimensions in mm [inch]



Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



① Countersinking Af3, DIN 74

Frequency displays / tachometers

LCD frequency displays

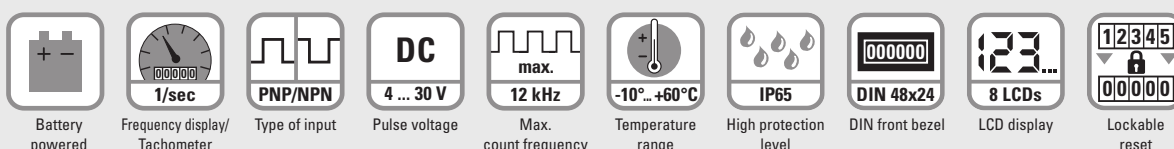
Measuring range in Hz (battery)

Codix 136



The Codix 136 is a simple battery powered frequency display / tachometer for NPN, PNP pulses.

Fast and slow count pulses are displayed directly in Hz via the 8-digit LCD display with its optional backlighting.



Powerful

- Input frequency range from 1 Hz ... 12 kHz – gate measuring method, gate time 1 second.
- Battery life approx. 8 years.
- Filter function for bounce-free counting with mechanical contacts .
- Count frequency max. 12 kHz – accuracy 0.05 %.
- High protection level IP65.

Simple

- Screw terminals, RM 5 mm.
- For positive or negative edges, depending on version.
- Large 8-digit LCD display with 8 mm high figures and optional backlighting.
- Display directly in Hz.

Order code

6.136 . 012 . 8XX
a b

a Backlighting

5 = without
6 = with

b Count input

Mode	INP A			INP B		
0 = Tacho	0 ... 0.7 V DC	NPN	7 kHz	0 ... 0.7 V DC	NPN	30 Hz
1 = Tacho	4 ... 30 V DC	PNP	12 kHz	0 ... 0.7 V DC	PNP	30 Hz

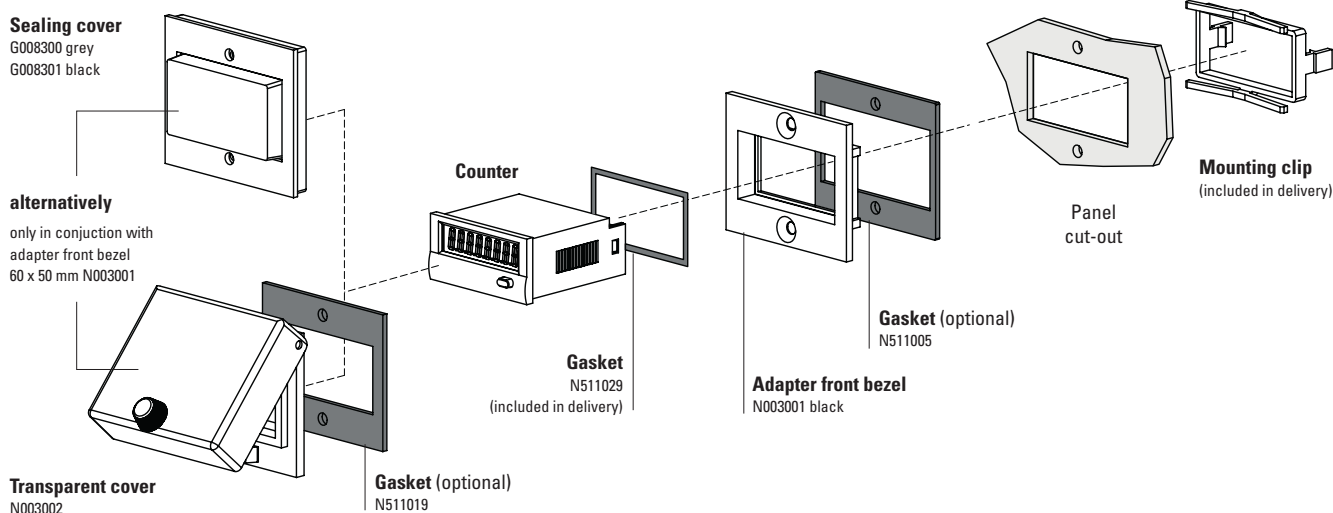
Delivery specification

- Pulse counter
- Mounting clip
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Gasket
- Instruction manual, multilingual

Frequency displays / tachometers

LCD frequency displays	Measuring range in Hz (battery)	Codix 136
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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		53 x 28 mm [2.09 x 1.10"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black anthracite	T008165 T008180	N511015
		56 x 40 mm [2.20 x 1.57"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black anthracite	T008161 T008181	N511045
		72 x 36 mm [2.83 x 1.42"]	for cut-out 68 x 33 mm [2.68 x 1.30"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black and silver anodised as set	162704Set	—
		60 x 50 mm [2.36 x 1.97"]	for cut-out 54 x 29 mm [2.13 x 1.14"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black	N003001	N511005
		48 x 48 mm [1.89 x 1.89"]	for cut-out 45 x 45 mm [1.77 x 1.77"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	T008883	—
Sealing cover IP65		K1	only in conjunction with adapter front bezel 60 x 50 mm N003001	transparent / grey	G008300	—
				transparent / black	G008301	—
Transparent cover IP65		1 Dv (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjunction with adapter front bezel 60 x 50 mm N003001	transparent / black	N003002	N511019
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		N511029	
					N511034	
Mounting frame		cut-out 50 x 25 mm [1.97 x 0.98"]	via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300004	—
Enclosure blind		48 x 24 mm [1.89 x 0.94"]	for cut-out 45 x 22.2 mm [1.77 x 0.94"] and cut-out 50 x 25 mm [1.97 x 0.98"]	anthracite	G003836	—

incl. in delivery

Frequency displays / tachometers

LCD frequency displays	Measuring range in Hz (battery)	Codix 136
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Technical data

General technical data		
Display	LCD, 8 digits, 8 mm [0.32"] high	
Backlighting	external electrical source 24 V DC $\pm 20\%$, 50 mA	
Display range	0 ... 99999999	
Resolution	1/sec (1 Hz)	
Working temperature	-10 °C ... +55 °C [+14 °F ... +131 °F] (non-condensing)	
Operating temperature	-10 °C ... +60 °C [+14 °F ... +140 °F] (non-condensing)	
Storage temperature	-20 °C ... +70 °C [-4 °F ... +158 °F]	
Relative humidity	< 85 % (non-condensing)	
Altitude	up to 2000 m [6562']	

Counting inputs		
Counting input of the DC-versions (max. 30 V DC)		
slow counting input	max.	30 Hz NPN or PNP
fast counting input	max.	12 kHz (PNP), 7 kHz (NPN)
switching level NPN	LOW	0 ... 0.7 V DC
	HIGH	3 ... 30 V DC
switching level PNP	LOW	0 ... 0.7 V DC
	HIGH	4 ... 30 V DC

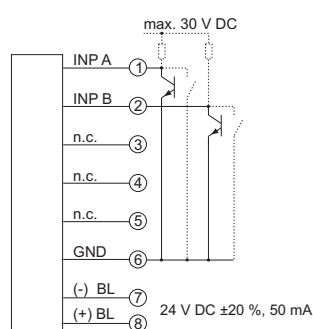
Approvals		
UL compliant in accordance with	File no. E128604	
CE compliant in accordance with		
EMC Directive	2014/30/EU	
RoHS Directive	2011/65/EU	
Low Voltage Directive	2014/35/EU	

Electrical characteristics		
Supply voltage	internal lithium battery approx. 8 years at 20 °C [68 °F]	
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Mechanical characteristics	
Housing	dark grey RAL 7021
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

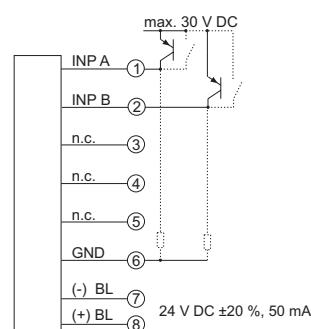
Terminal assignment

DC type: 6.136.012.8x0



BL = backlighting

DC type: 6.136.012.8x1



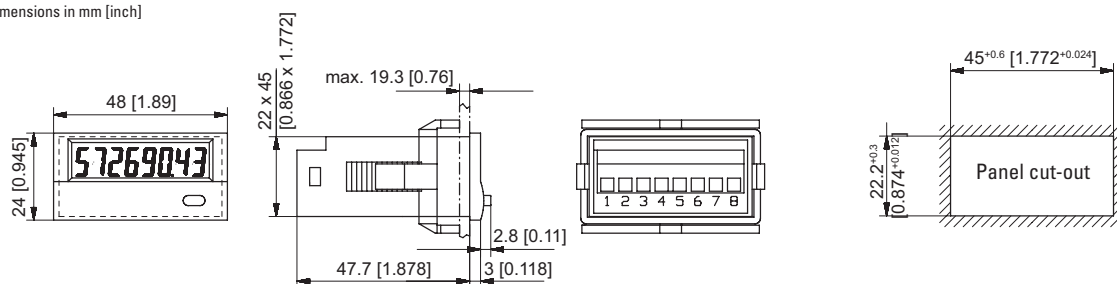
BL = backlighting

Frequency displays / tachometers

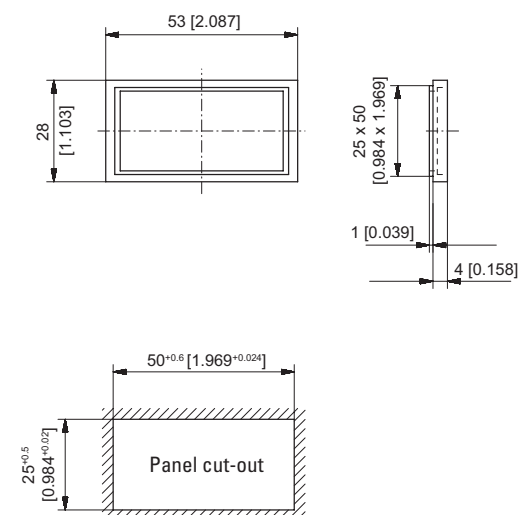
LCD frequency displays	Measuring range in Hz (battery)	Codix 136
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Dimensions

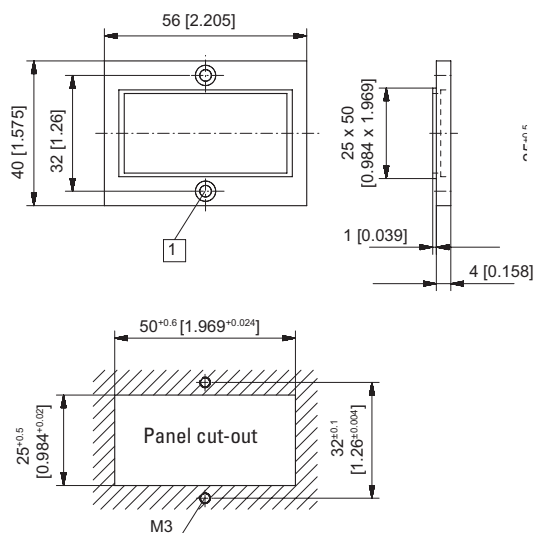
Dimensions in mm [inch]



Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74

LCD preset counters

Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)

Codix 923 / 924



The multifunction preset counters Codix 923 / 924 can be used universally. These preset pulse counters, tachometers or preset timers with up to 6 presets can solve a wide variety of control and monitoring tasks in every application.

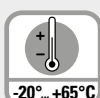
With their two-line display in 4 different versions the counters are very easy to read and simple to programme using the clearly laid-out decade keys. Complex control tasks can be carried out using a batch count or total count function.



Supply voltage



Supply voltage



Temperature range



DIN 48x48



Frequency meter HRA



Menu-driven programming



High protection level



Count frequency



Plug-in screw terminal



Presets



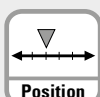
Multifunctional



LCD display



Multicolor display



Position display



Batch counter



Totalizer

Multifunctional

- Counter, tachometer and timer in one device.
- Can be used a preset counter, batch counter, totalizer or position display with tracking preset.
- Presets: 923: 1, 924: 2, 924-4: 4, 924-6: 6.
- Relay or optocoupler outputs.
- Many different count modes for pulse inputs, time and frequency.
- Scalable input using multiplication and division factor
- Set value.
- Averaging, start delay (tachometer).
- Step or tracking presets (eliminate the need for reprogramming of the pre-signal).
- Multi-range supply voltage.

Fast and user-friendly

- Direct input of the presets via the front keys or via the Teach-In input.
- Fast installation thanks to plug-in screw terminals.
- Max. count frequency 65 kHz.
- Simultaneous display of the actual and of the preset value, or of the actual value and of the batch / totalizing counter.
- Annunciators for the displayed preset and for the output status.
- 3 predefined parameter settings.
- Direct entry into the programming.
- Minimal installation depth.
- 4-stage RESET modes.
- 3-stage key lockout.
- Multicolor display for improved differentiation.

Order code

6.92X.01XX.XXX
a b c d e f

a Number of presets

- 3 = 1 preset
- 4 = 2, 4 or 6 presets

b Output

- 0 = relays
- 1 = optocouplers (only a = 4)²⁾

c LCD options

- 0 = no backlighting
- 1 = green backlighting¹⁾
- 2 = LED look, negative, red backlighting¹⁾
- 3 = multicolor, negative red/green backlighting

d Supply voltage

- 0 = 100 ... 240 V AC, ±10 %
- 2 = 24 V AC, ±10 %
- 3 = 10 ... 30 V DC

e Input trigger level

- 0 = standard level (HTL)
- A = 4 ... 30 V DC level¹⁾

f Version

- 0 = standard 923/924
- B = 6 optocoupler outputs²⁾
- 924-6 (only b = 1)
- C = 4 relay outputs²⁾
- 924-4 (only b = 0)

Delivery specification

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

Stock types

- 6.923.0100.000
- 6.923.0100.300
- 6.923.0103.000
- 6.924.0100.300
- 6.924.0101.000
- 6.924.0102.000
- 6.924.0103.000
- 6.924.0103.300

Additional inputs, outputs or interface types on request

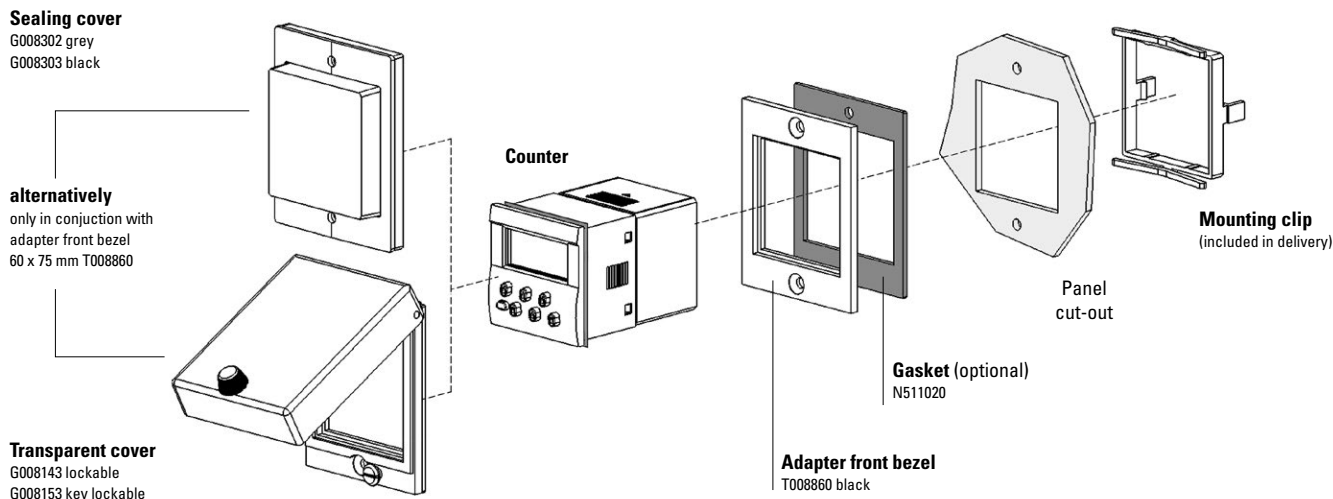
1) 24 V AC on request

2) Not possible in 24 V AC.

Preset counters, electronic

LCD preset counters	Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)	Codix 923 / 924
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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 9 ... 15 (for 923 / 924), pitch 5.08 9 ... 15 (for 924-4 / 924-6), pitch 5.08 16 ... 20 (for 924-4 / 924-6), pitch 3.81	8-pin 7-pin 7-pin 5-pin	N100498 N100548u002 N100400u002 N100399u002	

incl. in delivery

Preset counters, electronic

LCD preset counters	Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)	Codix 923 / 924
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Technical data

General technical data			
Display	standard	2 line 2 x 6 digits LCD display positive green with optional backlighting	
	LED look	negative red backlighting	
	multicolor	upper line negative, red backlighting lower line negative, red or green backlighting (programmable)	
Operating temperature		-20 °C ... +65 °C [-4 °F ... +149 °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		approx. 125 g [4.41 oz]	
Electrical characteristics			
Sensor supply voltage	AC (50/60 Hz)	100 ... 240 V AC, ±10 %, max. 15 VA 24 V AC ±10 %, max. 6 VA	
	DC	10 ... 30 V, max. 5.5 W	
External fuse protection	100 ... 240 V AC	T 0.1 A	
	24 V AC	T 0.315 A	
	10 ... 30 V DC	T 0.2 A	
Data retention		> 10 years, EEPROM	
Input modes	pulse counters:	Count direction (cnt.dir), Difference (up.dn), Addition A+B (up.up), phase discriminator x1, x2, x4 (quad, quad x2, quad x4), Ratio (A/B), Ratio in % ((A-B)/A x 100%)	
		frequency meter:	A, A-B, A+B quad, A/B, (A-B)/A x 100 %
	timer:	4 Start modes: FrErun, Auto, InpA.InpB., InpB.InpB.	
Sensor supply voltage	AC supply	24 V DC ±15 %, 80 mA	
	DC supply	max. 80 mA, external supply voltage is connected through	
Device safety	designed to protection class application area	EN 61010-1, EN 61010-2-201 2 pollution level 2	
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	

Inputs			
Count inputs		A and B	
Polarity of the inputs		programmable for all inputs in common NPN/PNP	
Input resistance		5 kΩ	
Count frequency	pulse counters	max. 55 kHz	
	tachometers	max. 65 kHz (details see manual) can be damped to 30 Hz (mechanical contacts)	
Control / Reset input		MPI, Lock, Gate, Reset	
Min pulse duration of signal and control inputs		10 ms / 1 ms	
Switching levels with AC supply	HTL level:	LOW	0 ... 4 V DC
		HIGH	12 ... 30 V DC
	4 ... 30 V DC:	LOW	0 ... 2 V DC
		HIGH	3.5 ... 30 V DC
Switching levels with DC supply	HTL level:	LOW	0 ... 0.2 x U _B
		HIGH	0.6 x U _B ... 30 V DC
	4 ... 30 V DC:	LOW	0 ... 2 V DC
		HIGH	3.5 ... 30 V DC
Pulse shape		variable, Schmitt-Trigger characteristics	
Outputs			
Outputs relay version (1 changeover contact with 923)			
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 (Relay closing contact, programmable as normally open (NO) or normally closed (NC))			
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	
Output 2 (Relay with changeover contact)			
Mech. service life (switching cycles)		2 x 10 ⁷	
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	
Outputs optocoupler version			
Output 1 and 2 (npn optocoupler)			
switching power		30 V DC / 10 mA	
	U _{CESAT} at IC = 10 mA	max. 2.0 V	
	U _{CESAT} at IC = 5 mA	max. 0.4 V	
Reaction time of the outputs (pulse / time)		relay optocoupler	approx. 13 ms approx. 1 ms Details see instruction manual
Response time of the frequency meter		100/600 ms details see instruction manual	

Preset counters, electronic

LCD preset counters	Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)	Codix 923 / 924
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Codix 924-4 and 924-6

The preset counters 924-4 and 924-6 vary from the standard counters 923 and 924 as follows:

- Relay version: 924-4, 4 presets, 2 additional relays
- Optocoupler version: 924-6: 6 presets, 4 additional optocoupler outputs
- No tracking presets
- Presets 1 and 4 affect the batch or total counter
- Presets 2, 3, 5 and 6 (Type: 924-6) or presets 2 and 3 (Type 924-4) affect the main counter
- Preset 2 is the main preset; it triggers the automatic reset
- Preset 2 is likewise the main preset for all further counting modes (the other presets are pre-signals)

Additional technical data Codix 924-4	
Output 3	
Relay with closing contact (programmable as normally closed NC or normally open NO)	
Switching voltage	max. 125 V AC / 110 V DC
Switching current	max. 1 A AC / 1 A DC min. 1 mA AC/DC
Switching capacity	max. 62.5 VA / 30 W
Mech. service life (switching cycles)	5×10^7
N° of switching cycles at 0.5 A / 125 V AC	1×10^5
N° of switching cycles at 1 A / 30 V DC	1×10^5
Output 4	
Relay with changeover contact	
Switching voltage	max. 125 V AC / 110 V DC
Switching current	max. 1 A AC / 1 A DC min. 1 mA AC/DC
Switching capacity	max. 62.5 VA / 30 W
Mech. service life (switching cycles)	5×10^7
N° of switching cycles at 1 A / 110 V AC	1×10^5
N° of switching cycles at 1 A / 30 V DC	1×10^5
Reaction time of the outputs, Relay	< 7 ms (only impulse and time counter)
Max. count frequency	50 kHz
Operating temperature	-20 °C ... +55 °C [-4 °F ... +131 °F]

Additional technical data Codix 924-6	
Output 1 ... 6	
NPN optocouplers	
Switching capacity	30 V DC / 10 mA
U_{CESAT} at IC = 10 mA	max. 2.0 V
U_{CESAT} at IC = 5 mA	max. 0.4 V
output 3, 4, 5 and 6 with common emitter	
Reaction time of the outputs, optocouplers (only impulse and time counter)	
Add/Sub/	< 1 ms
with auto repeat	< 1 ms
A/B; (A-B)/A	< 23 ms
Max. count frequency	50 kHz

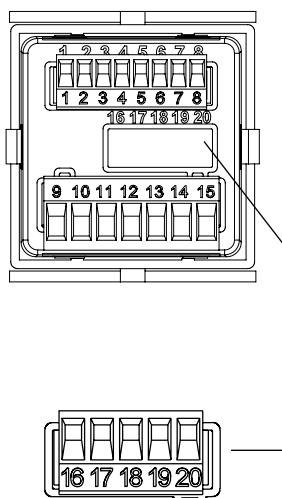
Preset counters, electronic

LCD preset counters

Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)

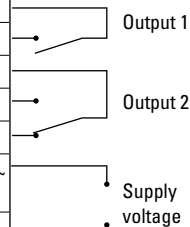
Codix 923 / 924

Terminal assignment



Pin	Signal and control inputs
1	Sensor supply voltage AC: 24 V DC / 80 mA DC: U_B interconnected
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	GATE (Gate input)
8	MPI (User input)

Pin	Version with relays/optocouplers
9	Relay contact C. / Collector
10	Relay contact N.O. / Emitter
11	Relay contact C. / Emitter
12	Relay contact N.O. / not assigned
13	Relay contact N.C. / Collector
14	AC: 24 V AC, 100 ... 240 VAC, $\pm 10\%$ N~ DC: 10 ... 30 V DC
15	AC: 24 V AC, 100 ... 240 VAC, $\pm 10\%$ L~ DC: GND (0 VDC)

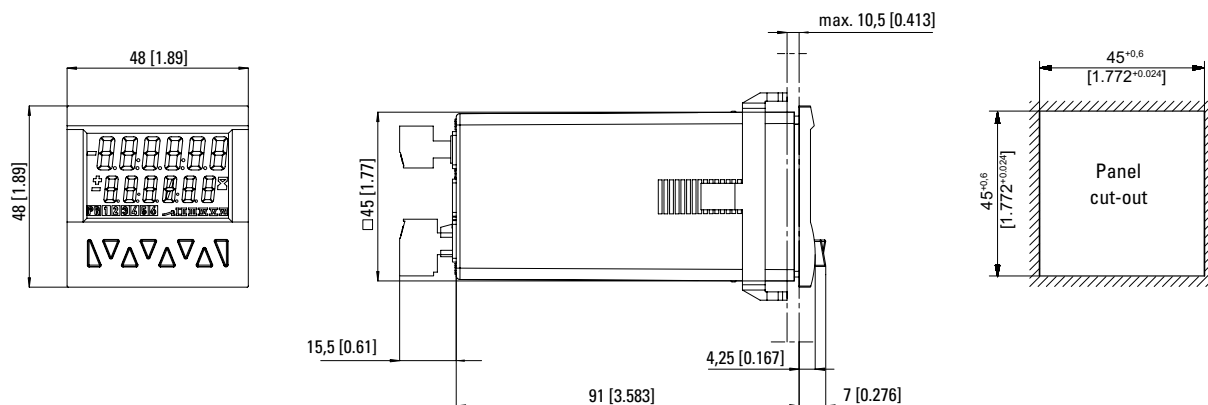


Pin	Additional connections 924-4
16	Relay contact N.C.4 output 4
17	Relay contact C.4 output 4
18	Relay contact N.O.4 output 4
19	Relay contact N.O.3 output 3
20	Relay contact C.3 output 3

Pin	Additional connections 924-6
16	Common-Emitter output 3 to 6
17	Collector 6 output 6
18	Collector 5 output 5
19	Collector 4 output 4
20	Collector 3 output 3

Dimensions

Dimensions in mm [inch]



Preset counters, electronic

LCD preset counters

Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)

Codix 923 / 924

Pulse counter

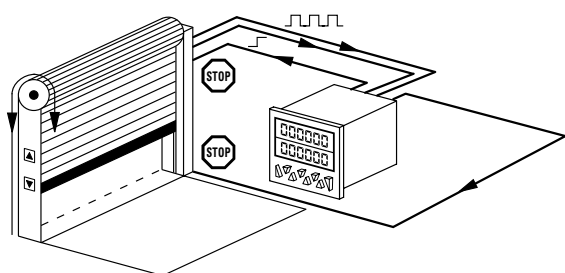
Functions / count modes:

- Count with direction mode
- Difference mode
- Quadrature mode quad/quad2/quad4
- Add, Sub, automatic reset
- 2-input adding mode A+B
- Ratio measurement A/B
- Percentage difference measurement $(A-B)/A \times 100 \%$
- Batch counting
- Totalizer (overall total)
- Multiplication and division factor (up to 99.9999)
- Set value
- Step or tracking preset

Application examples

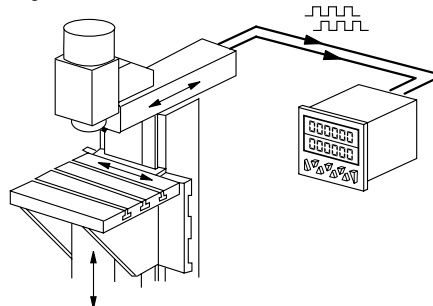
CountDir + Add

Roller shutter door with automatic shut-off



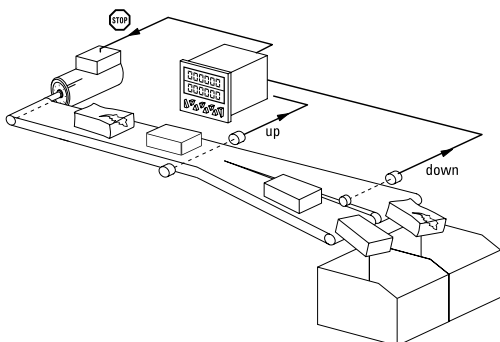
Quad + Add

Running direction and position on milling machines, Limit switch monitoring



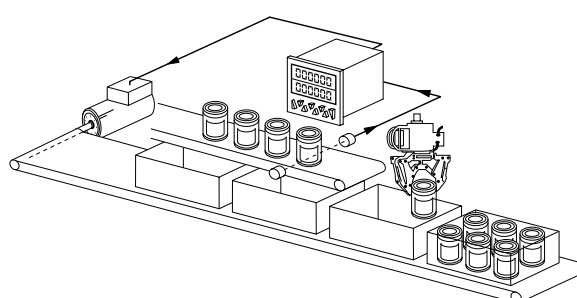
UpDown + Add

Automatic subtraction of faulty or reject parts from the total piece count



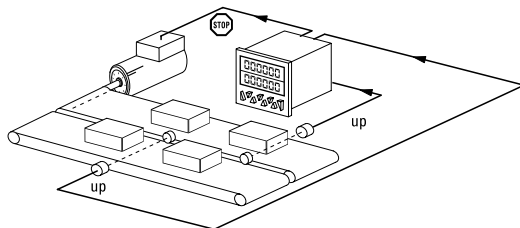
CountDir + Batch

Logging of piece numbers and packing units plus control of replenishment of packing cartons



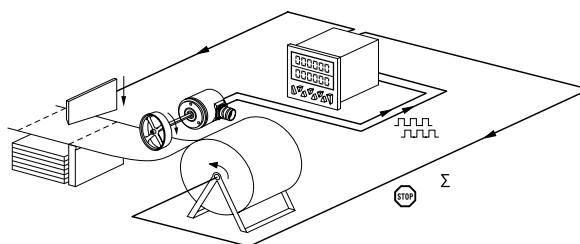
UpUp + Add

Adding up of two parallel or staggered production lines



Quad + Add tot

Cut-to-length with overall total count and control of the machine



Frequency meter (tachometer)

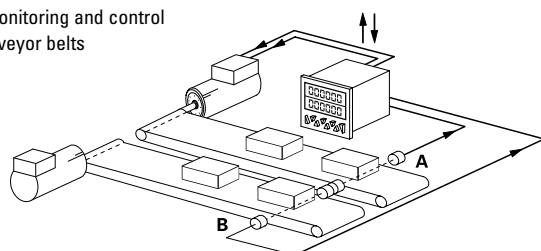
Functions / count modes:

- A
- A – B
- A + B
- A / B
- $(A - B) / A \times 100\%$ (percentage display)
- Quad (phase discriminator with recognition of direction)
- Averaging
- Start delay
- 2nd tach input
- Gate input
- Multiplication and division factor (up to 99.9999)

Application examples

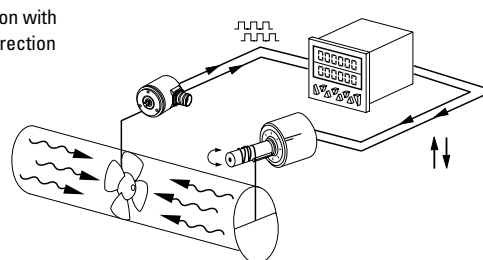
A – B

Synchro monitoring and control of two conveyor belts



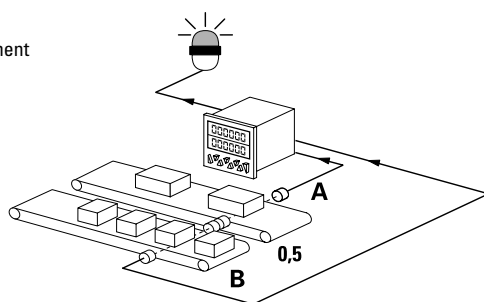
Quad

Speed regulation with indication of direction



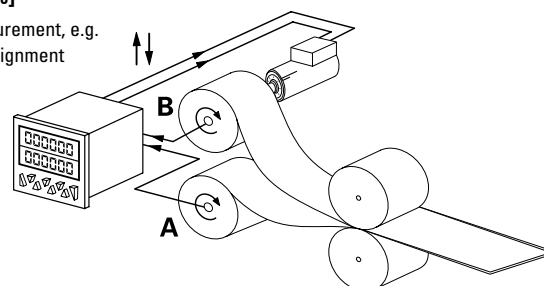
A/B

Ratio measurement



$(A-B)/A [\%]$

Ratio measurement, e.g. for speed alignment



Time and Hours-run meter (timer)

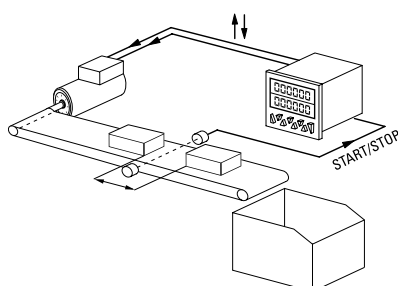
Functions / count modes:

- FrErUn (control via gate input)
- Auto (start via reset, stop at preset)
- InpB.InpB (start with first edge at InpB., stop with second edge InpB.)
- InpA. InpB (start with InpA., stop with InpB.)
- Totalizer (overall total)
- Batch counting
- Set value
- Step or tracking preset

Application examples

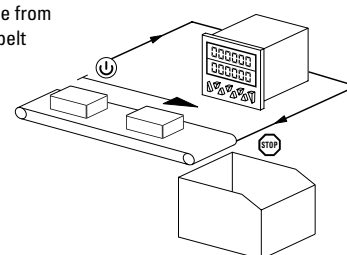
InpB. InpB

Interval measurement



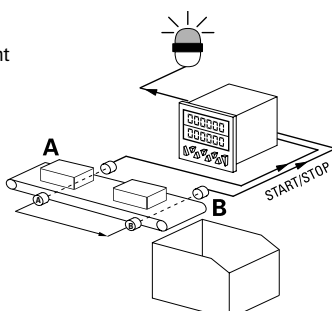
FrErUn

Measurement of overall time from switching on the conveyor belt till switching off



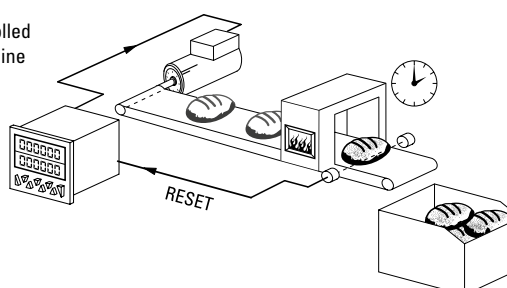
InpA. InpB

Run-time measurement



Auto

Time-controlled production line



Preset counters, electronic

LCD preset counters

Multifunctional – pulse, frequency, time – 1...6 presets (AC+DC)

Codix 923 / 924

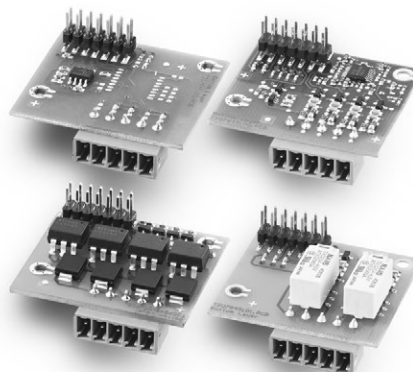
Expandable hardware

Expandable on request via modules:

- 4 additional inputs
- Or 4 additional optocoupler outputs
- Or 2 additional relay outputs
- Or RS232/485 communications interfaces

Application examples

- Limit switch monitoring
- Special functions/PLC function
- Initiation of fixed program sequences
- Control of several processes
- Special protocols
- Print commands for logging

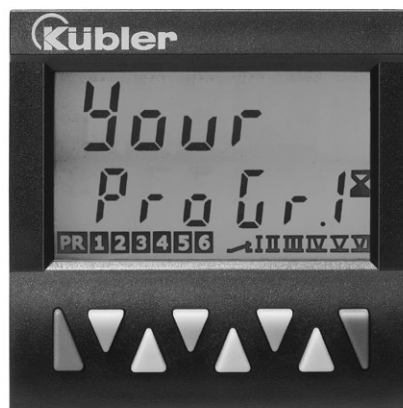


Customizable software

Individual customization of software to your application.

For example:

- Separate inputs for total counter and preset counter
- Separate scaling of input A and B
- Programmable measuring period for the tachometer
- Measurement of rotary speeds based on time
- Processing time, measurement of time based on frequency
- With the Multicolor version, the display color changes when reaching the preset, or blinking display with all versions



Preset counters, electronic

LED preset counters

Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)

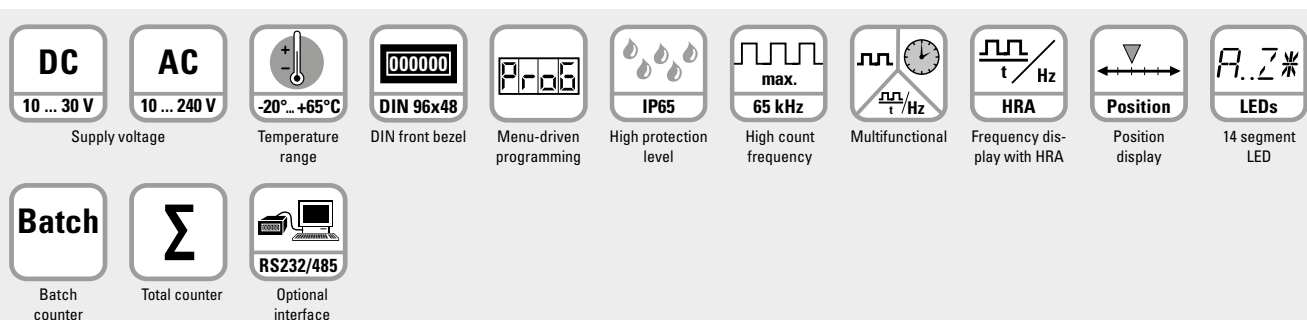
Codix 560



With its automatic help texts, clearly and legibly displayed on 14 LED segments, the Codix 560 preset counter takes the user effortlessly through the programming. The large user-friendly front keys can be operated even when wearing gloves.

The 14 mm high LED display ensures easy reading even from a long distance and in poor lighting conditions.

Now available also with RS232/RS485 interface and MODBUS and CR/LF protocol



Multifunctional

- Counter, tachometer, timer and position display in one device.
- Can be used as preset counter, batch counter or total counter.
- 2 relays (change-over).
- Many different count modes.
- Scalable display.
- Set value, step or tracking preset.
- Multi-range supply voltage for AC or DC.
- Readable or configurable via RS232/485 interface via MODBUS or CR/LF protocol.
- Allows direct connection of a large display or printer.

User-friendly

- Automatic help texts, displayed in German and English.
- 14-segment LED for improved text representation.
- Status display of the presets.
- 3 predefined parameters.
- Tracking presets eliminate the need for reprogramming of the pre-signal.
- Minimum installation depth.
- 4-stage RESET modes.
- 3-stage keypad locking.
- Suitable for installation in mosaic systems.

Order code

6.560 . 010 . XXX
a b c

- a** Supply voltage
0 = 100 ... 240 V AC, ±10 %
3 = 10 ... 30 V DC
- b** Input trigger levels
0 = Standard level (HTL)
A = 4...30 V DC level
- c** Interface (optional)
0 = None
5 = RS232 (MODBUS or CR/LF)
7 = RS485 (MODBUS or CR/LF)

Delivery specification

- Preset counter
- Mounting clip
- Instruction manual

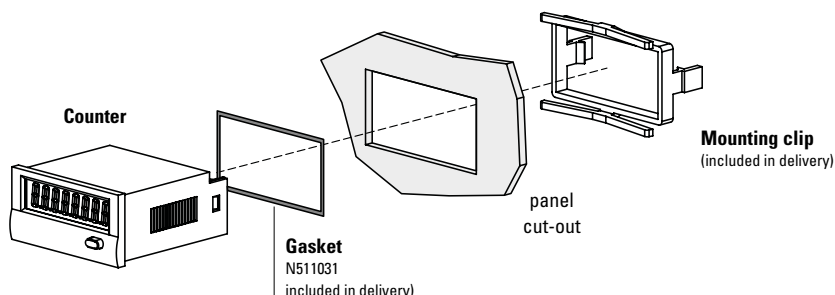
Stock types

6.560.010.000
6.560.010.300

Preset counters, electronic

LED preset counters	Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)	Codix 560
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Accessories / Mounting examples



		Type / size	Description		Order no.	
Gasket counter			96 x 49 mm [3.78 x 1.93"]		N511031	
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	
						incl. in delivery

Technical data

General technical data	
Display	6-digit red 14 segment LED display, 14 mm [0.55] high
Operating temperature	-20 °C ... +65 °C [-4 °F ... +149 °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 (from the front)
Weight	approx. 180 g [6.35 oz]

Electrical characteristics		
Supply voltage	AC	100 ... 240 V AC, ±10 % max. 11 VA, 50/60 Hz
	DC	10 ... 30 V, max. 5.5 W
External fuse protection	230 V AC 10 ... 30 V DC	T 0.1 A T 0.25 A
Data retention	> 10 years, EEPROM	
Response time of the frequency meter	100 / 600 ms (details s. instruction manual)	
Input modes	pulse counters	count direction (cnt.dir), difference (up.dn), addition A+B (up.up), phase discriminator x1, x2, x4 (quad, quad x2, quad x4), ratio (A/B), ratio in % ((A-B)/A x 100 %)
	frequency meter	A, A-B, A+B quad, A/B, (A-B)/A x 100 %
	timer	4 start modes: FrErun, Auto, InpA.InpB., InpB.InpB.
Sensor supply voltage	AC supply DC supply	24 V DC ±15 %, 80 mA max. 80 mA, external power supply is connected through
Device safety	designed to protection class	EN 61010 part 1 2
	application area	pollution level 2

Preset counters, electronic

LED preset counters	Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)	Codix 560
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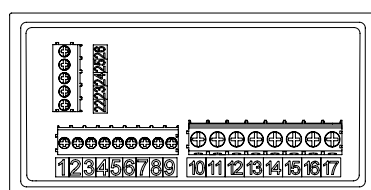
Inputs		
Count inputs		A and B
Polarity of the inputs		programmable for all inputs in common, NPN/PNP
Input resistance		5 kΩ
Count frequency	pulse counters	max. 55 kHz
	tachometers	max. 65 kHz can be damped to 30 Hz (mechanical contacts) (details s. instruction manual)
Control / Reset input		MPI 1 and MPI 2, Lock, Gate, Reset
Min pulse duration of the inputs		10 ms / 1 ms
Switching levels with AC supply	HTL-level:	LOW: 0 ... 4 V DC
		HIGH: 12 ... 30 V DC
	4 ... 30 V DC:	LOW: 0 ... 2 V DC
		HIGH: 3.5 ... 30 V DC
Switching levels with DC supply	HTL-level:	LOW: 0 ... 0.2 x U _B
		HIGH: 0.6 x U _B ... 30 V DC
	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 / 150 V DC
Switching current	max. 3 A AC / DC min. 30 mA DC
Switching capacity	max. 750 VA / 90 W
Output 1 + 2	
mech. service life (switching cycles)	2 x 10 ⁷
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 / time)	13 ms (details s. instruction manual)

Optional interface MODBUS and CR/LF	
Count frequency	max. 45 kHz (details s. instruction manual)
Interface	RS232, RS485
Baud rate	9600
Device address	1 ... 99, programmable

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

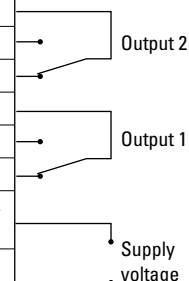
Terminal assignment



Pin	RS232 (optional)	Pin	RS485 (optional)
22	GND	22	–
23	RXD	23	DO
24	TXD	24	DI
25	–	25	–
26	–	26	–

Pin	Signal and control inputs
1	INP A (Signal input A)
2	INP B (Signal input B)
3	RESET (Reset input)
4	LOCK (Keypad lock)
5	GATE (Gate input)
6	MPI 1 (User input 1)
7	MPI 2 (User input 2)
8	Sensor supply voltage AC: 24 V DC/80 mA DC: U _B connected through
9	Shared connection for signal and control inputs GND (0 VDC)

Pin	Version with relay/optocoupler
10	Relay contact C.2
11	Relay contact N.O.2
12	Relay contact N.C.2
13	Relay contact C.1
14	Relay contact N.O.1
15	Relay contact N.C.1
16	AC: 100 ... 240 V AC, ±10 %, N~ DC: 10 ... 30 V DC
17	AC: 100 ... 240 V AC, ±10 %, L~ DC: GND (0 V DC)



Preset counters, electronic

LED preset counters	Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)	Codix 560
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Pulse counter

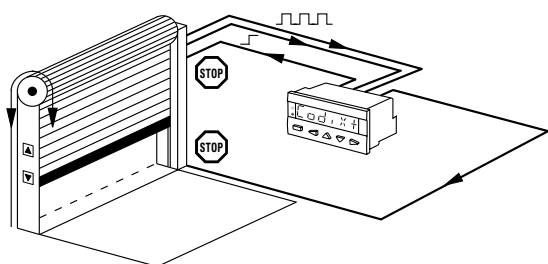
Functions / count modes

- Count with direction mode
- Difference mode
- Quadrature mode quad / quad2 / quad4
- Add, Sub, automatic reset
- 2-input adding mode A+B
- Ratio measurement A/B
- Multi-range supply voltage for AC or DC
- Percentage difference measurement $(A-B)/A \times 100 \%$
- Batch counting
- Totalizer (Overall total)
- Multiplication and division factor (up to 99.9999)
- Set value
- Step or tracking preset

Application examples

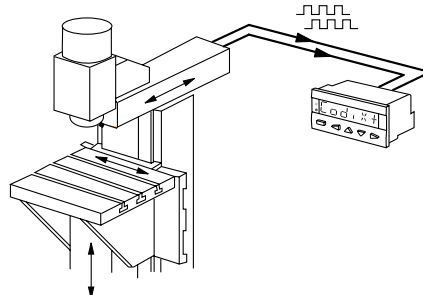
CountDir + Add

Roller shutter door with automatic shut-off



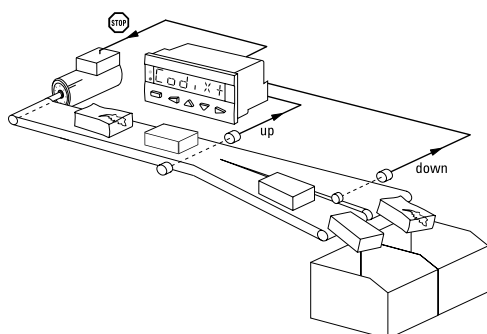
Quad + Add

Running direction and position on milling machines, Limit switch monitoring



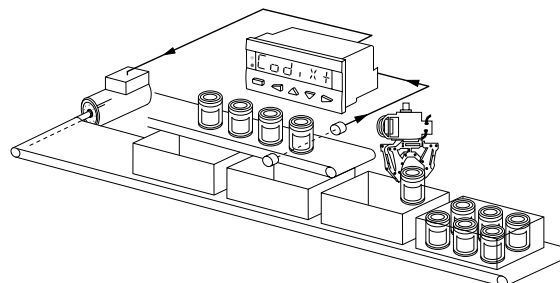
UpDown + Add

Automatic subtraction of faulty or reject parts from the total piece count



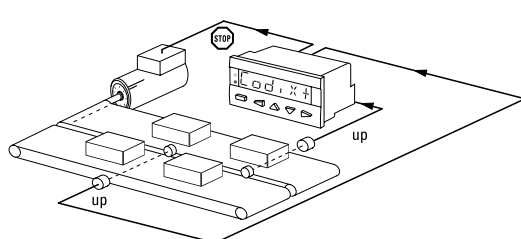
CountDir + Batch

Logging of piece numbers and packing units plus control of replenishment of packing cartons



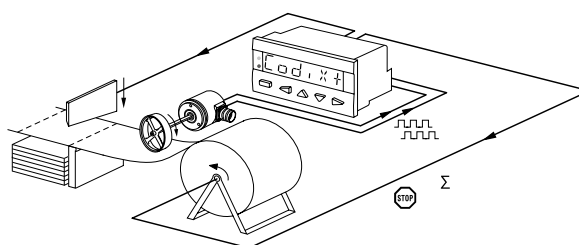
UpUp + Add

Adding up of two parallel or staggered production lines



Quad + Add tot

Cut-to-length with overall total count and control of the machine



Preset counters, electronic

LED preset counters

Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)

Codix 560

Frequency meter (tachometer)

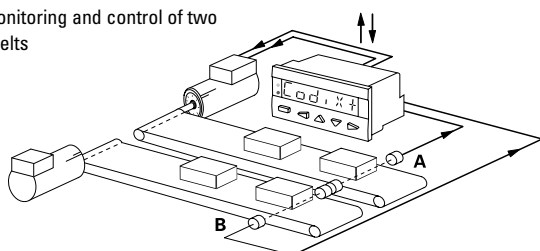
Functions / count modes

- A
- A – B
- A + B
- A / B
- $(A - B) / A \times 100\%$ (percentage display)
- Quad (phase discriminator with recognition of direction)
- Averaging
- Start delay
- 2nd tacho input
- Gate input
- Multiplication and division factor (up to 99.9999)

Application examples

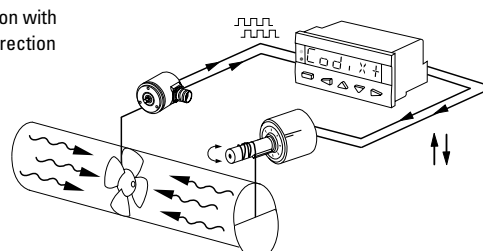
A – B

Synchro monitoring and control of two conveyor belts



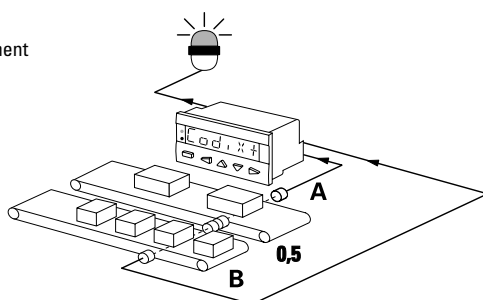
Quad

Speed regulation with indication of direction



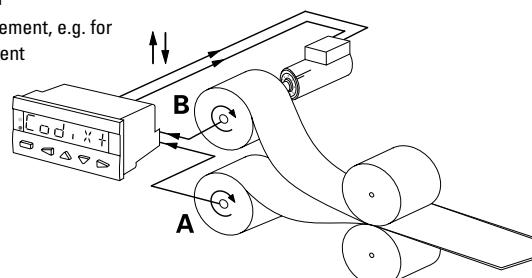
A/B

Ratio measurement



$(A-B)/A [\%]$

Ratio measurement, e.g. for speed alignment



Time and hours-run meter (timer)

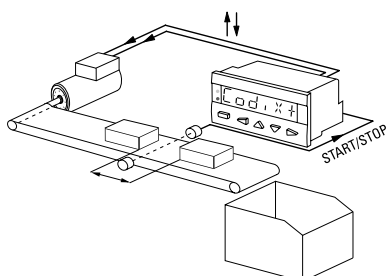
Functions / count modes

- FrErUn (control via gate input)
- Auto (start via reset, stop at preset)
- InpB.InpB (start with first edge at InpB., stop with second edge InpB.)
- InpA. InpB (start with InpA., stop with InpB.)
- Totalizer (overall total)
- Batch counting
- Set value
- Step or tracking preset

Application examples

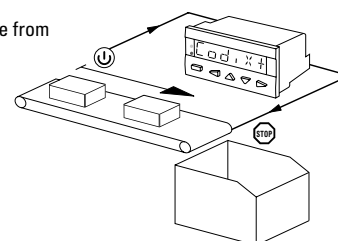
InpB. InpB

Interval measurement



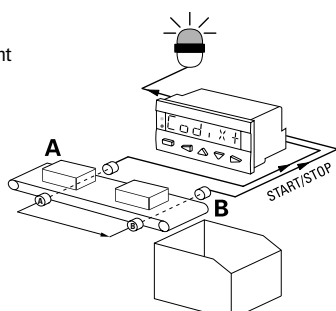
FrErUn

Measurement of overall time from switching on the conveyor belt till switching off



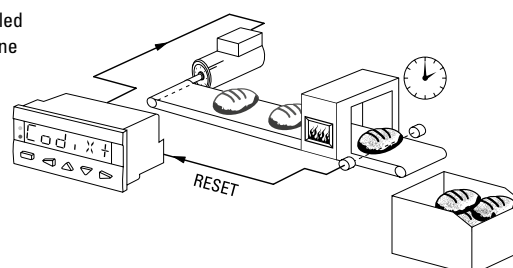
InpA. InpB

Run-time measurement



Auto

Time-controlled production line



Preset counters, electronic

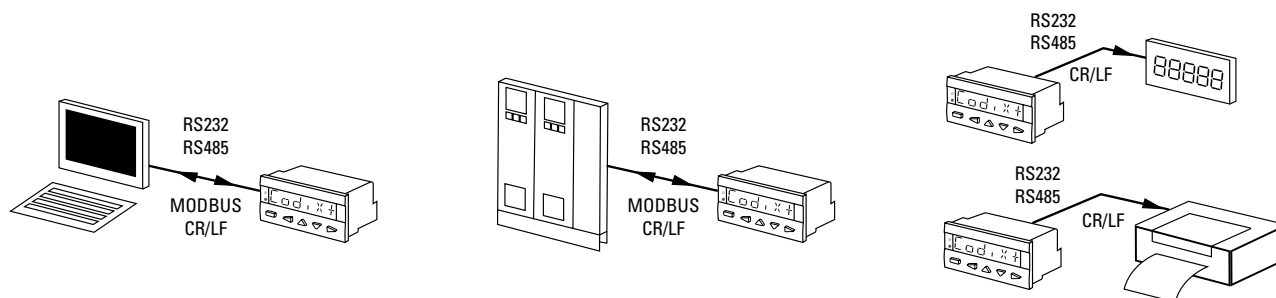
LED preset counters

Multifunctional – pulse, frequency, time – 65 kHz, 2 presets (AC+DC)

Codix 560

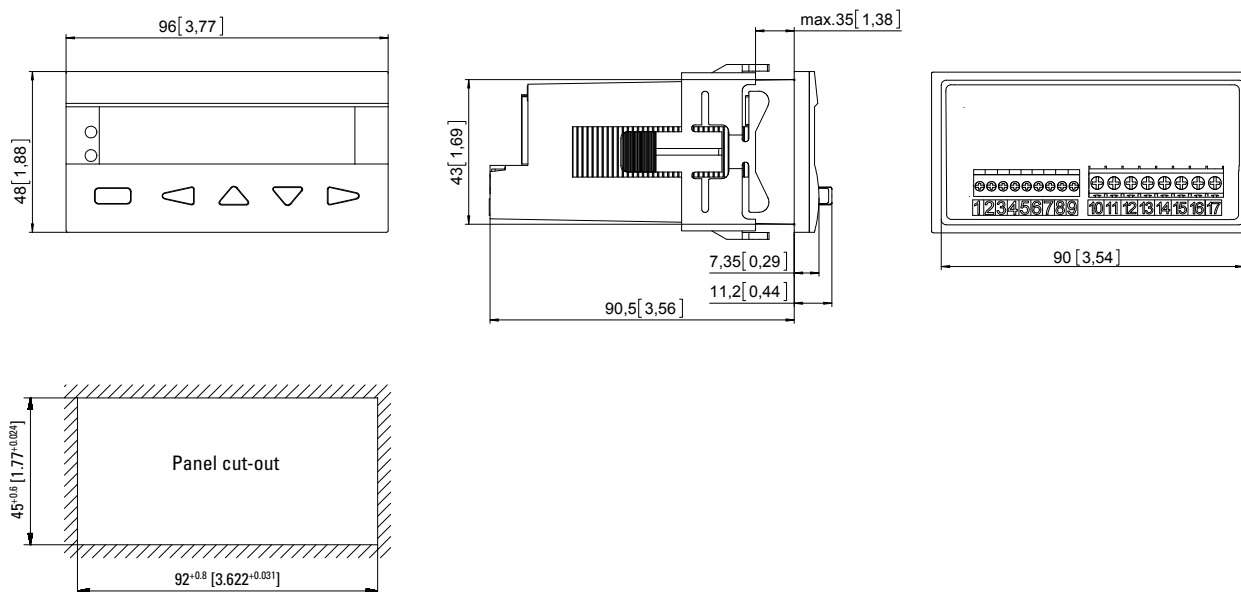
RS232 / RS485 interface (optional)

For connecting the counter to a PC, a PLC, a large display or a printer – for reading-out data or configuring the device.



Dimensions

Dimensions in mm [inch]





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