

WP050100

MONITORS • POSITION MONITORS

The monitoring of rotation speed or rotating movements is necessary in many applications to ensure the proper operation of the plant. Our rotation- and zero speed monitors operate according to different operating principles: 1. Monitoring of pulses of a transducer via a current transformer, 2. Frequency measurement of the phase current. Our devices feature, depending on the type, a wide variety of functions. For a further evaluation in a higher-level control, the results are i.e. outputted as easy relay contact (over-/underspeed) or as analog output signal resolved to the set rotation speed range.



MECHANICAL DATA

Ambient temperature (MAX)	60 °C
Ambient temperature (MIN)	-20 °C
Degree of protection (IP)	IP65
Height	48 mm
Housing material	Plastic
Installation depth	105 mm
Length	116 mm
Mounting method	Front mounting
Storage temperature	70 °C
Storage temperature	-25 °C
Width	96 mm

ELECTRICAL DATA

Display	LED
Max. output current 1	0.2 A
Max. output current 2	0.2 A
Max. output current 3	0.2 A
Max. output current 4	0.2 A
No-load current	100 mA
Number of decades	8
Number of presets to be set	4
Number of switching outputs	4
Operating voltage (MAX)	30 V
Operating voltage (MIN)	18 V
Pulse counter	No
Rated control supply voltage U_s at DC (MAX)	30 V
Rated control supply voltage U_s at DC (MIN)	18 V
Switching current	0.2 A
Switching voltage	24 V
Transducer power supply current	250 mA
Transducer power supply voltage	24 V

ELECTRICAL DATA

Type of 2nd switching function	Programmable/configurable
Type of 2nd switching output	PNP/NPN
Type of 3rd switching function	Programmable/configurable
Type of 3rd switching output	PNP/NPN
Type of 4th switching function	Programmable/configurable
Type of 4th switching output	PNP/NPN
Type of analog output	0 V ... 10 V / 0 mA ... 20 mA
Type of electrical connection	Screw connection
Type of signal input A	PNP
Type of signal input B	PNP/NPN
Type of switching function	Programmable/configurable
Type of switching output	PNP/NPN
With communication interface, RS-232	Yes

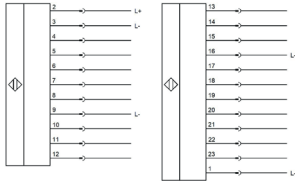
OPTICAL DATA

Background lighting of LC display	Yes
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OTHER DATA

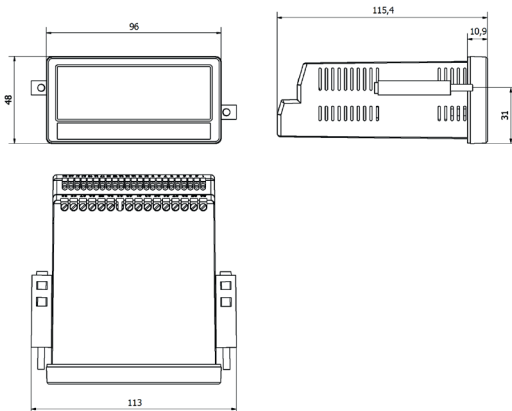
Number of characters	8
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CONNECTION



Colors: Functions: 1 = L-, 2 = L+, 3 = L-, 4 = Aux. Out, 5 = CLK, 6 = /CLK, 7 = DATA 2, 8 = /DATA, 9 = L-, 10 = Ctrl. In 1, 11 = Ctrl. In 2, 12 = Ctrl. In 3, 13 = AGND, 14 = 20mA, 15 = +/-10V, 16 = L-, 17 = RxD, 18 = TxD, 19 = Com +, 20 = Ctrl. Out 1, 21 = Ctrl. Out 2, 22 =

DIMENSIONAL DRAWING



INSTALLATION

DISPOSAL



Mounting / Installation may only be carried out by a qualified electrician!



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.