

WS200120

MONITORS • ZERO SPEED 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.



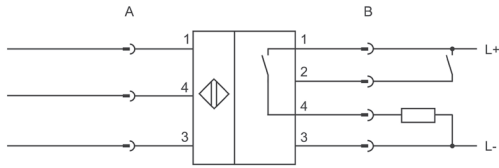
MECHANICAL DATA

Ambient temperature (MAX)	60 °C
Degree of protection (IP)	IP67
Housing material	Plastic
Storage temperature	60 °C
Storage temperature	-20 °C

ELECTRICAL DATA

Hysteresis	5 %
Input voltage at DC (MAX)	30 V
Input voltage at DC (MIN)	10 V
Max. output current	400 mA
Minimum pulse length	0 ms
No-load current	10 mA
Number of outputs	1
Number of outputs, signaling function, undelayed, semiconductors	1
Operating frequency (MAX)	1000 Hz
Operating frequency (MIN)	0.02 Hz
Rated control supply voltage U_s at DC (MAX)	10 V
Rated control supply voltage U_s at DC (MIN)	30 V
Rotation speed monitoring function	No
Setting procedure	Teach-In
Standstill monitoring function	Yes
Type of electrical connection	Plug-in connection
Type of switching function	Normally open contact
Type of switching output	PNP
Type of transistor output	PNP
Type of transistor switching function	Normally open contact
Voltage type for actuation	DC

CONNECTION

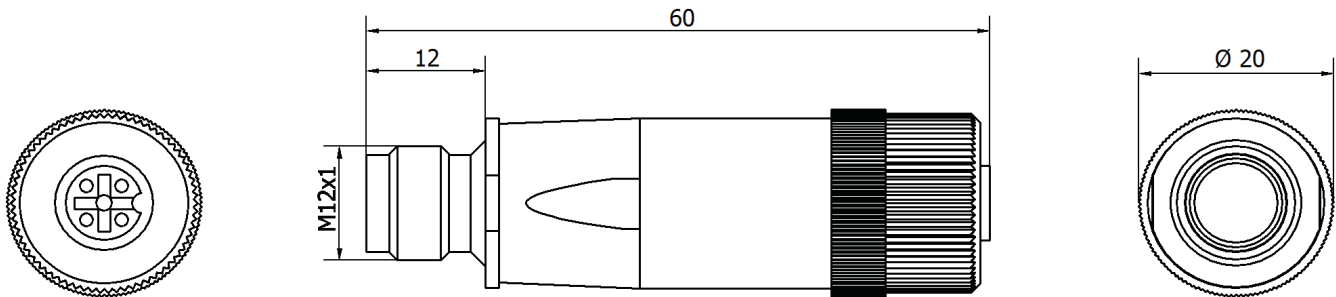


Colors: A: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black) **Functions:** A: 1 = L+, 3 = L-, 4 = PNP NO

B: 1 = L+, 2 = teach-In, 3 = L-, 4 = PNP NO

DIMENSIONAL DRAWING



INSTALLATION



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

DISPOSAL



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.