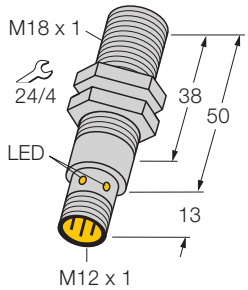
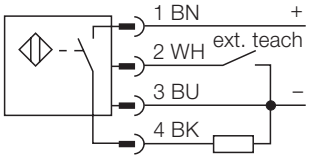
ultrasonic sensor
diffuse mode sensor
RUN20-M18K-AP8X-H1141

Industrial Automation



- **compact housing style**
- **connection via M12 x 1 connector**
- **4-hole LED, visible from all sides**
- **upper switching range value adjustable via teach adapter VB2-SP2**
- **opening angle of sonic cone 6°**

Wiring diagram



Type	RUN20-M18K-AP8X-H1141
Ident-No.	1830034
Range	3… 20 cm
Ultrasound frequency	400 kHz
Temperature drift	0.17 % / K
Repeatability	≥ ± 1 mm
Edge lengths of the nominal actuator	20 mm
Ambient temperature	-25…+ 70 °C
Operating voltage	20… 30VDC
DC rated operational current	150 mA
No-load current I_0	20 mA
Output function	normally open, pnp
Short-circuit protection	yes / cyclic
Reverse polarity protection	complete
Switching frequency	10 Hz
Voltage drop at I_e	2V
Wire breakage protection	yes
Housing	cylindrical/threaded, M18
Dimensions	63 mm
Housing diameter	18 mm
Thread length	38 mm
Housing material	metal, CuZn, nickel-plated
Connection	connectors, M12 x 1
Degree of protection	IP67
Display switch state	LED yellow

Functional principle

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of a large variety of objects. It does not matter whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistence. Environmental conditions such as spray, dust or rain hardly affect their function.

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
VB2-SP2	6999083	Teach adapter for RUN/R-M18K(S)-AP8X-H1141	

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