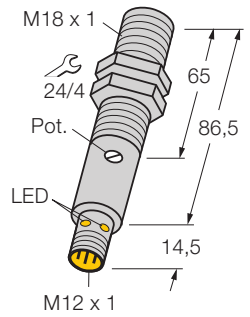
ultrasonic sensor
diffuse mode sensor
RU30-M18-AP8X-H1141

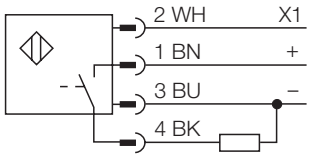
Industrial Automation



- **upper switching range value adjustable via potentiometer**
- **synchronisation with additional sensors via X1 line**
- **connection via M12 x 1 connector**
- **further parameters adjustable via programming device RU-PDI**
- **opening angle of sonic cone 6°**

Type	RU30-M18-AP8X-H1141
Ident-No.	1810000
Range	5… 30 cm
Ultrasound frequency	400 kHz
Temperature drift	0.17 % / K
Temperature drift	± 2.5 % of full scale
Repeatability	≥ ± 1 mm
Edge lengths of the nominal actuator	10 mm
Pass speed	1.5 m/s
Approach speed	4 m/s
Ambient temperature	-25…+ 70 °C
Operating voltage	20… 30VDC
DC rated operational current	150 mA
No-load current I_0	50 mA
Output function	normally open, pnp
Short-circuit protection	yes / cyclic
Reverse polarity protection	complete
Switching frequency	5 Hz
Voltage drop at I_e	3V
Wire breakage protection	yes
Housing	cylindrical/threaded, M18
Dimensions	101 mm
Housing diameter	18 mm
Thread length	65 mm
Housing material	metal, CuZn, nickel-plated
Connection	connectors, M12 x 1
Degree of protection	IP67
Display switch state	LED yellow

Wiring diagram



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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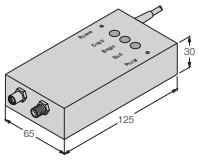
Accessories

Type code	Ident-No.	Short text	Dimension drawing
RU-PDI	1890000	programming device for configuration of ultrasonic sensor types RU…-M18 and RUC…-M30	

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