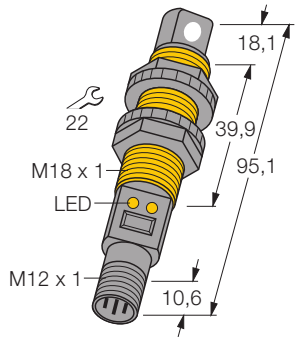
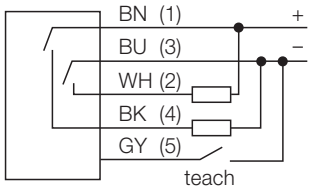
ultrasonic sensor
diffuse mode sensor
S18UBARQ

Industrial Automation



- **compact housing style**
- **connection via M12 x 1 connector**
- **temperature compensation**
- **very small blind zone**
- **switching range adjustable via teach-in**
- **adjustable retro-reflective mode**

Wiring diagram



Type	S18UBARQ
Ident-No.	3002715
Range	3… 30 cm
Ultrasound frequency	300 kHz
Temperature drift	± 0.3 % of full scale
Repeatability	≥ ± 0.25 mm
Edge lengths of the nominal actuator	50 mm
Ambient temperature	-20…+ 60 °C
Operating voltage	10… 30VDC
No-load current I_0	100 mA
Output function	normally open, PNP/NPN
Short-circuit protection	yes
Reverse polarity protection	complete
Switching frequency	8 Hz
Wire breakage protection	yes
Housing	cylindrical/threaded, S18U
Dimensions	95.1 mm
Housing diameter	18 mm
Thread length	39.9 mm
Housing material	plastic, PBT
Connection	connectors, M12 x 1
Degree of protection	IP67
Display switch state	LED yellow
Display ' Object detected '	LED green

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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Casp System Sp. Z o.o., Puszkina 2, 43-603 Jaworzno, Polska, www.casp.pl, e-mail: biuro@casp.pl, tel/fax: +48 32 614 09 17