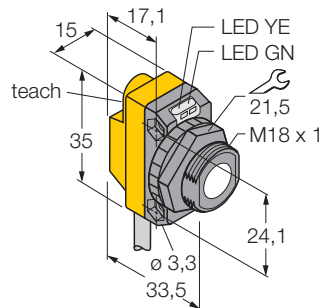


ultrasonic sensor
diffuse mode sensor
QS18UPA

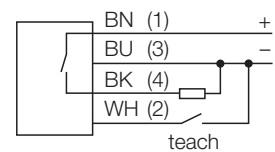
TURCK

Industrial
Automation



- Operating voltage 12...30 VDC
- compact housing style
- cable, 2m
- temperature compensation
- very small blind zone
- switching range adjustable via teach-in
- adjustable retro-reflective mode

Wiring diagram



Functional principle

Ultrasonic sensors use ultrasonic waves for non-contact and wear-free detection of many objects. Regardless of whether the object is transparent or opaque, metallic or non-metallic, or of liquid, solid or powdery consistency. Even environmental conditions such as spray, dust or rain hardly affect their function.

Type	QS18UPA
Ident-No.	3073155
Range	5... 50 cm
Ultrasound frequency	300 kHz
Temperature drift	≤ 0.1% / K
Repeatability	≥ ± 0.7 mm
Edge lengths of the nominal actuator	50 mm
Hysteresis	≤ 1.4 mm
Ambient temperature	-20...+ 60°C
Operating voltage	12... 30 VDC
No-load current I_0	≤ 25 mA
Output function	NO contact, PNP
Short-circuit protection	yes
Reverse polarity protection	complete
Switching frequency	≤ 33Hz
Wire breakage protection	yes
Housing	rectangular, QS18U
Dimensions	33.5x 15x 35mm
Housing material	Plastic, ABS
Sonic converter material	plastic, Epoxyd resin and PU foam
Sonic converter ring material	plastic, PBT
Electrical connection	cables
Cable length	2 m
Cable cross section:	4 x 0.5mm ²
Protection class	IP67
Switching state	LED yellow