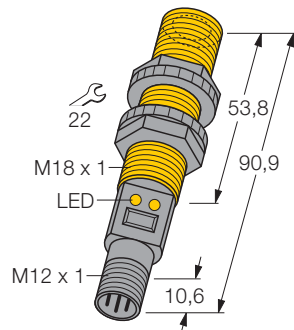


**ultrasonic sensor
diffuse mode sensor
S18UIAQ**

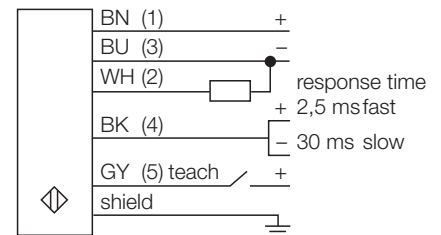
TURCK

Industrial
Automation



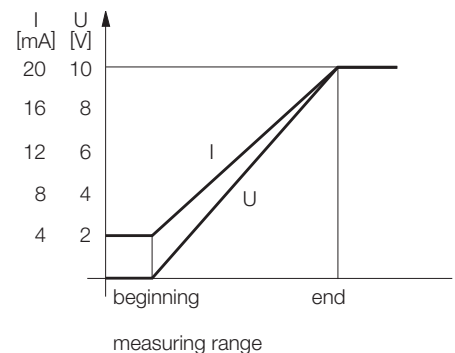
- compact housing style
- connection via M12 x 1 connector
- temperature compensation
- very small blind zone
- measuring range adjustable via teach-in

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	S18UIAQ
Ident-No.	3002703
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... 30 VDC
No-load current I_0	≤ 100 mA
current output	4... 20 mA
Load resistance	≤ 1000 Ω
Short-circuit protection	yes
Reverse polarity protection	complete
Wire breakage protection	yes
Housing	cylindrical/threaded, S18U
Dimensions	90.9mm
Housing diameter	Ø 18mm
Thread length	53.8 mm
Housing material	Plastic, PBT
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Display 'Object detected'	LED green