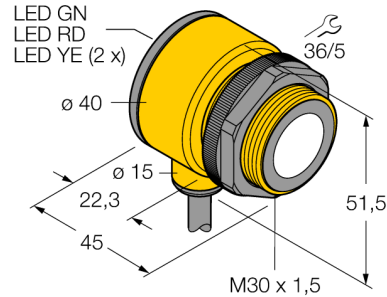


ultrasonic sensor
diffuse mode sensor
T30UDPB

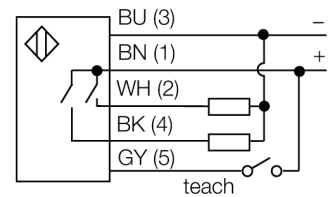
TURCK

Industrial
Automation



- compact housing style
- cable, 2m
- Operating voltage 12...24 VDC
- two pnp transistor outputs
- two independent switching ranges adjustable via button or control line

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	T30UDPB
Ident-No.	3055550
Range	30...200 cm
Ultrasound frequency	120 kHz
Temperature drift	≤ 0.17 % / K
Repeatability	≥ ± 0.75 mm
Hysteresis	≤ 2.5 mm
Ambient temperature	-20...+70 °C
Operating voltage	12...24VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 50 mA
Output function	2x NO, PNP
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Switching frequency	≤ 10 Hz
Voltage drop at I ₀	≤ 1.5 V
Wire breakage protection	yes
Design	cylindrical/threaded, T30
Dimensions	45 mm
Housing diameter	Ø 40 mm
Housing material	Plastic, Polyester
Connection	cable
Cable length	2 m
Cable cross section	5 x 0.5 mm ²
Protection class	IP67
MTTF	246years acc. to SN 29500 (Ed. 99) 40 °C
Operating voltage	LED
Switching state	LED yellow
Display ' Object detected '	LED