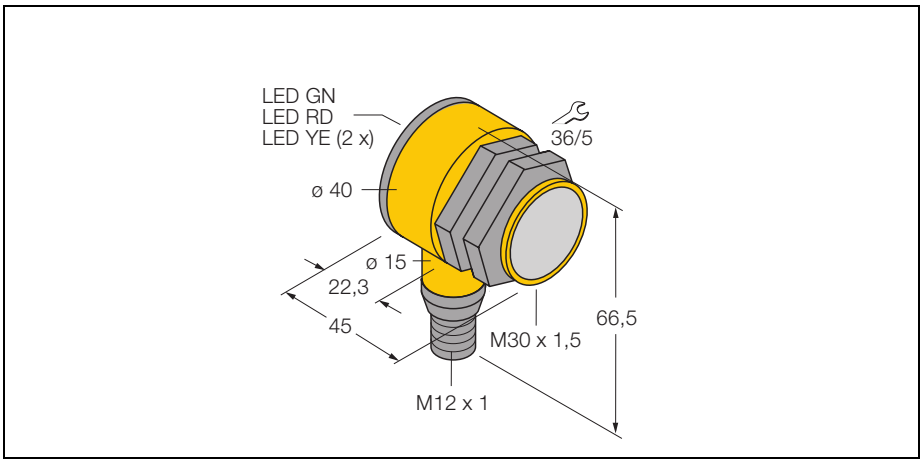
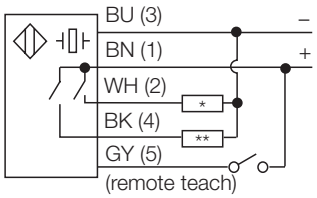
ultrasonic sensor
diffuse mode sensor
T30UDPAQ



Type	T30UDPAQ
Ident-No.	3055545
Range	15… 100 cm
Ultrasound frequency	230 kHz
Temperature drift	0.17 % / K
Repeatability	≥ ± 0.375 mm
Ambient temperature	-20…+ 70 °C
Operating voltage	12… 24VDC
DC rated operational current	150 mA
No-load current I_0	50 mA
Output function	2x normally open, pnp
Short-circuit protection	yes / cyclic
Reverse polarity protection	complete
Switching frequency	20 Hz
Voltage drop at I_e	1.5V
Wire breakage protection	yes
Housing	cylindrical/threaded, T30
Dimensions	45 mm
Housing diameter	40 mm
Housing material	plastic, Polyester
Connection	connectors, M12 x 1
Degree of protection	IP67
Display switch state	LED yellow

- **compact housing style**
- **connection via M12 x 1 connector**
- **Operating voltage 12…24 VDC**
- **two pnp transistor outputs**
- **two independent switching ranges adjustable via button or control line**

Wiring diagram



* output 1
** output 2: 100 mA maximum

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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