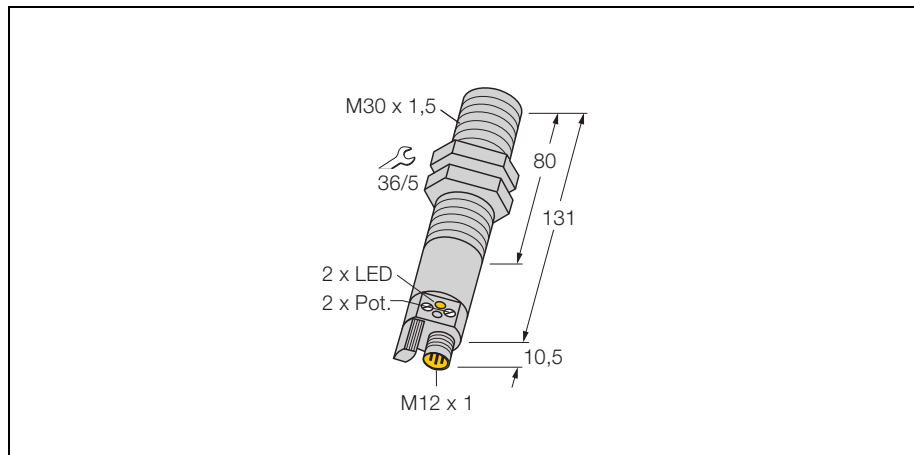
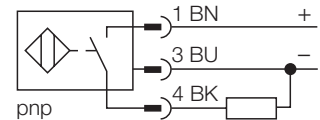


ultrasonic sensor
diffuse mode sensor
RU100-M30-AP8X-H1141



- lower and upper switching limit adjustable via potentiometer
- pnp transistor output (normally open)
- opening angle of sonic cone 6°

Wiring diagram

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.

Type	RU100-M30-AP8X-H1141
Ident-No.	18302
Range	20... 130 cm
Ultrasound frequency	200 kHz
Temperature drift	0.17 % / K
Repeatability	≥ ± 2 mm
Edge lengths of the nominal actuator	20 mm
Pass speed	1.2 m/s
Approach speed	10 m/s
Ambient temperature	-25...+ 70 °C
Operating voltage	20... 30VDC
DC rated operational current	300 mA
No-load current I_0	50 mA
Output function	normally open, pnp
Short-circuit protection	yes / cyclic
Reverse polarity protection	complete
Switching frequency	4 Hz
Voltage drop at I_e	3V
Wire breakage protection	yes
Housing	cylindrical/threaded, M30
Dimensions	141.5 mm
Housing diameter	30 mm
Thread length	80 mm
Housing material	metal, CuZn, nickel-plated
Connection	connectors, M12 x 1
Degree of protection	IP65
Display switch state	LED yellow