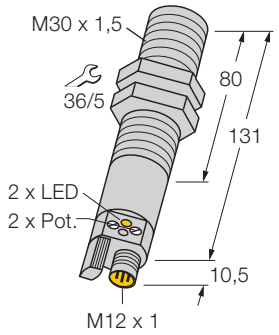
ultrasonic sensor
diffuse mode sensor
RU30-M30-AP8X-H1141

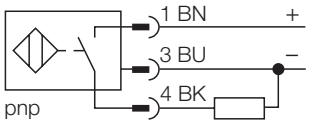
Industrial Automation



Type	RU30-M30-AP8X-H1141
Ident-No.	18300
Range	6… 30 cm
Ultrasound frequency	400 kHz
Temperature drift	0.17 % / K
Repeatability	≥ ± 0.45 mm
Edge lengths of the nominal actuator	10 mm
Pass speed	1.5 m/s
Approach speed	4 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	8 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

- **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.

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Casp System Sp. Z o.o., Puszkina 2, 43-603 Jaworzno, Polska, www.casp.pl, e-mail: biuro@casp.pl, tel/fax: +48 32 614 09 17