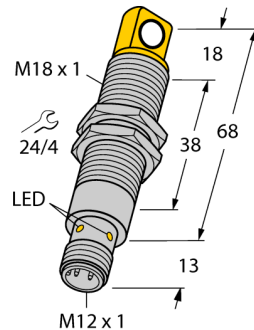


ultrasonic sensor
diffuse mode sensor
RU20-M18KS-LFX-H1141

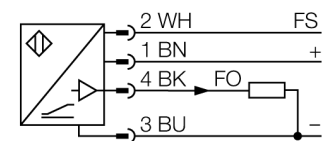
TURCK

Industrial
Automation



- Compact design with side emission
- Male connector M12 x 1
- 4-hole LED, visible from all sides
- Frequency range selectable via control line FS
- Opening angle of sonic cone 6°

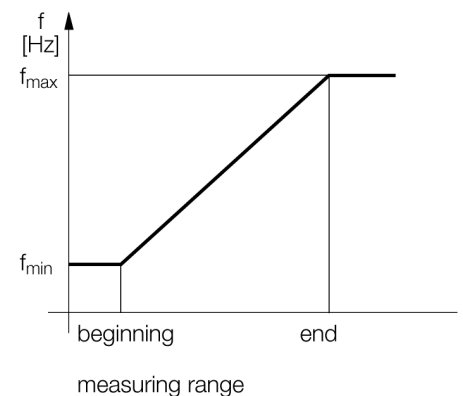
Wiring diagram



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.

Characteristic



Type code	RU20-M18KS-LFX-H1141
Ident no.	1830032

Design	cylindrical/threaded, M18
Dimensions	Ø18x 81 mm
Housing material	Metal, CuZn, nickel-plated
Connection	male, M12 x 1
Protection class	IP67
Ambient temperature	-25...+70 °C

Switching state	•
------------------------	---

Operating voltage	20...30VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 20 mA
Voltage drop at I_0	≤ 2 V
Short-circuit protection	yes/ cyclic
Reverse polarity protection	complete
Wire breakage protection	yes

Range	3...20 cm
Ultrasound frequency	400 kHz
Repeatability	≥ ± 1 mm
Edge lengths of the nominal actuator	20 mm

ultrasonic sensor
diffuse mode sensor
RU20-M18KS-LFX-H1141



Wiring accessories

Type code	Ident no.	Description	Dimension drawing
RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	