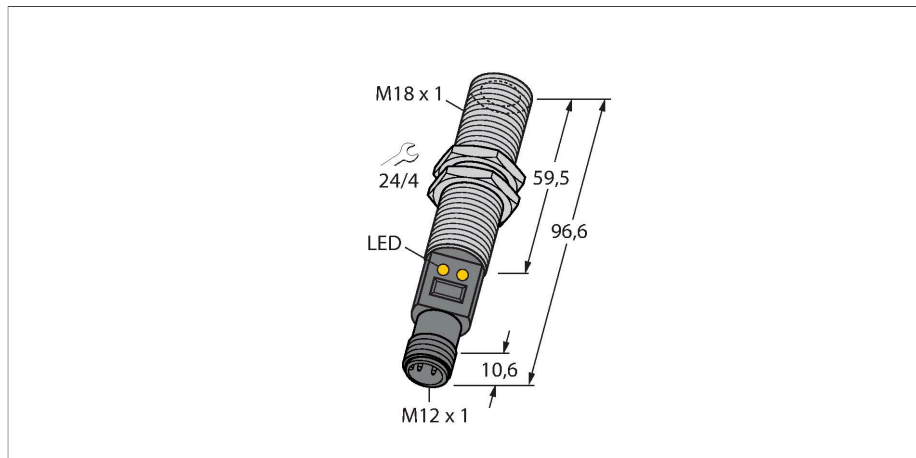


M18TB14Q

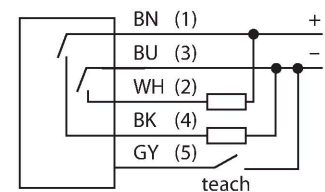
Temperature sensor – Infrared sensor



Features

- connection via M12 x 1 connector
- D:S ratio 14:1
- Operating voltage 10...30 VDC
- Switchpoint adjustable via teach-in
- Temperature range 0...300°C

Wiring diagram

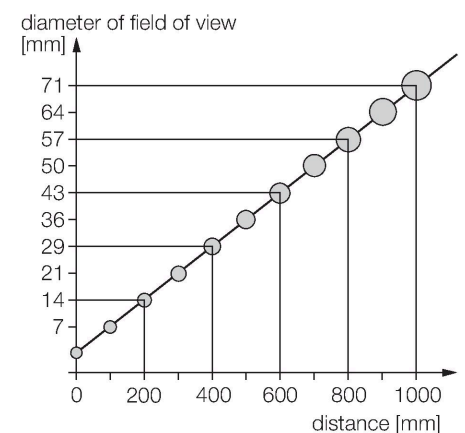


Technical data

Type	M18TB14Q
ID no.	3073652
Measuring range	0...300 °C
Temperature operating range	-4...158 °F
Factory setting	-20...280 °C
	-4...536 °F
Response time	25 ms
Operating voltage	10...30 VDC
Short-circuit/reverse polarity protection	yes / Cyclic / yes
Protection type and class	IP67
Output 1	Switching output
Switching output	
Output function	NO contact, PNP/NPN
Switching current	≤ 100 mA
Switching frequency	≤ 20 Hz
Response time typical	< 25 ms
Ambient temperature	-20...+70 °C
Storage temperature	-20...+70 °C
Housing	
Housing material	Stainless steel, 1.4301 (AISI 304), Grey
Process connection	M18 × 1
Electrical connection	Connectors, M12 × 1
Switching state	LED, Yellow
Included in delivery	2 M18 × 1 metal hexagon nuts

Functional principle

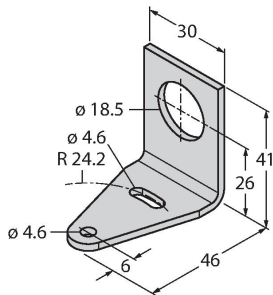
Temperature sensors are used in applications where temperatures for control and optimisation of processes must be captured and monitored. The sensor operates only as a receiver. The thermal radiation of an object within a wave length range of 8 to 14 µm is transformed into an electrical signal via a thermopile and then further processed to become an output signal. Here the D:S (distance: spot) ratio is very important because it specifies the diameter of the spot at a defined distance. The sensor is optimally aligned, if the spot is completely covered by the object, whose temperature is to be monitored.



Accessories

SMB18A

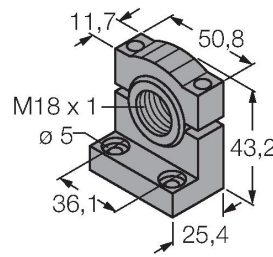
3033200



Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

SMB18SF

3052519



Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable

SMB18UR

3052517

Mounting bracket, for wall mounting, stainless steel 300, 2-piece, rotatable, 18 mm bore hole, screw set included

LAT1812

3074262

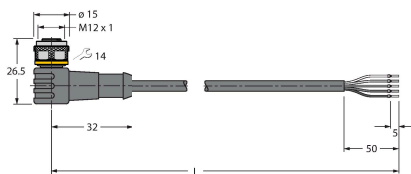
Laser alignment aid, visible red, contains M12 laser emitter (laser class 2) and mounting bracket SMB1812, for sensors with 18 mm thread, 10 ... 30 VDC supply necessary

Accessories

Dimension drawing

Type

ID no.



WKC4.5T-2/TEL

6625028

Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com



RKC4.5T-2/TEL

6625016

Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com