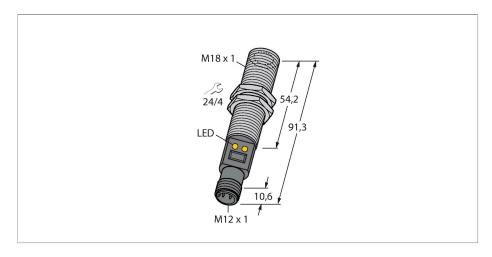


M18TB8Q Temperature sensor – Infrared sensor



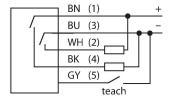
Technical data

Туре	M18TB8Q
ID no.	3073646
Measuring range	0300 °C
Temperature operating range	-4158 °F
Factory setting	-20280 °C
	-4536 °F
Response time	25 ms
Operating voltage	1030 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
	-

Features

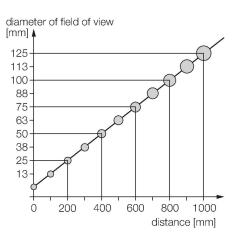
- connection via M12 x 1 connector
- ■D:S ratio 8:1
- Operating voltage 10...30 VDC
- Switchpoint adjustable via teach-in
- ■Temperature range 0...300°C

Wiring diagram



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.

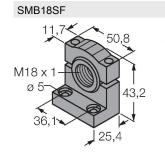


3052519

Accessories

SMB18A Mountin stainles mm thr

3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



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

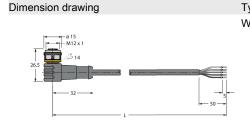
SMB18UR 3052517

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



Type ID no. WKC4.5T-2/TEL 6625028

54.01 2122

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