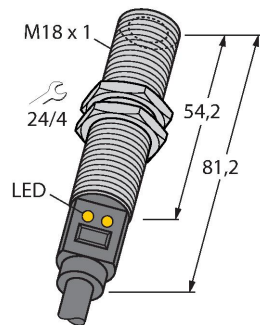


M18TB8

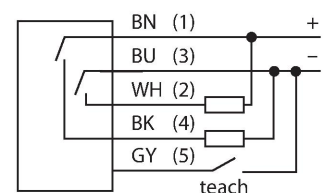
Temperature sensor – Infrared sensor



Features

- Connection via cable, 2 m
- D:S ratio 8:1
- Operating voltage 10...30 VDC
- Switchpoint adjustable via teach-in
- Temperature range 0...300 °C

Wiring diagram

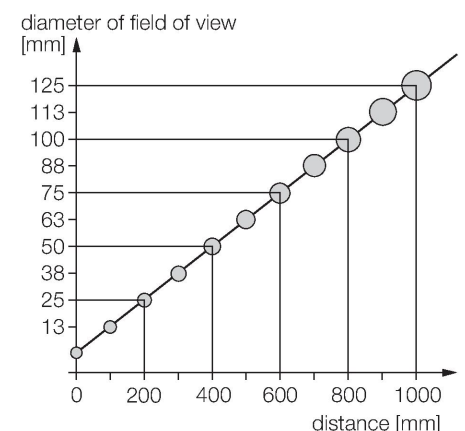


Technical data

Type	M18TB8
ID no.	3073645
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	Cable
Cable quality	Ø 6 mm, Black, PVC, 2 m, 2 m
Core cross-section	5 x 0.5 mm ²
Switching state	LED, Yellow
Included in delivery	2 M18 × 1 metal hexagon nuts

Functional principle

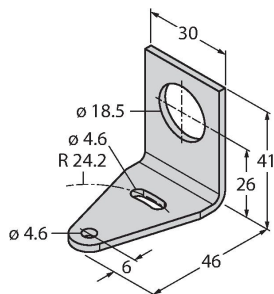
Temperature sensors are used in applications where temperatures for control and optimisation of processes must be captured and monitored. The sensor operates only as a receiver. The thermal radiation of an object within a wave length range of 8 to 14 µm is transformed into an electrical signal via a 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

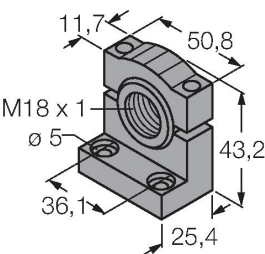


SMB18UR 3052517

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

SMB18SF 3052519

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



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