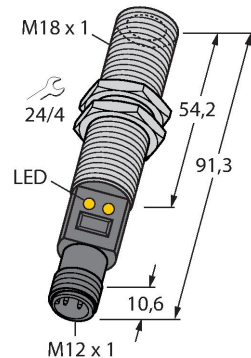


M18TIP8Q

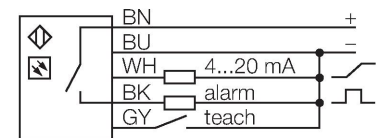
Temperature sensor – Infrared sensor



Features

- connection via M12 x 1 connector
- D:S ratio 8:1
- Operating voltage 12...30 VDC
- Measuring range adjustable via teach-in
- Analog output 4...20 mA
- PNP Alarm output switches at 20 mA
- Temperature range 0 ... +300 °C

Wiring diagram



Technical data

Type	M18TIP8Q
ID no.	3081128
Measuring range	0...300 °C
Temperature operating range	-4...158 °F
Factory setting	-20...280 °C
	-4...536 °F
Response time	75 ms
Operating voltage	12...30 VDC
Short-circuit/reverse polarity protection	yes / Cyclic / yes
Protection type and class	IP67
Output 1	Analog output
Output 2	switching output
Output function	NO contact, PNP/Analog output
Current output	4...20 mA
Response time typical	< 75 ms
Ambient temperature	-20...+70 °C
Storage temperature	-20...+70 °C
Housing	
Housing material	Stainless steel, 1.4301 (AISI 304), Grey
Process connection	M18 x 1
Electrical connection	Connectors, M12 x 1
Switching state	LED, Yellow
Included in delivery	2 M18 x 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.

