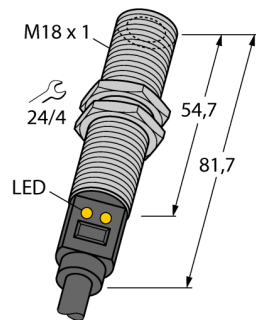
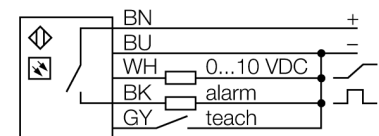


# Temperature sensor Passive Infrared Sensor With Analog Output M18TUP6E W/30



- Connection via cable, 2 m
- D:S ratio 6:1
- Operating voltage 12...30 VDC
- Measuring range adjustable via teach-in
- Analog output 0...10 V
- PNP alarm output switches at the measuring range limit of 10 V
- Temperature measuring range 0...300 °C

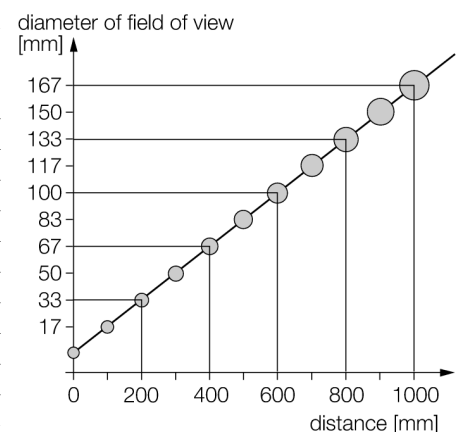
## Wiring Diagram



## 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.

## D:S Ratio



Type	M18TUP6E W/30'
ID	3074919
General data	
Function	Proximity switch
D:S ratio	6:1
Measuring range	0...300 °C
	-4...158 °F
Factory setting	-20...280 °C
	-4...536 °F
Electrical data	
Operating voltage $U_a$	12...30 VDC
Short-circuit protection	yes/Cyclic
Reverse polarity protection	yes
Output function	NO contact, PNP/Analog output
Output 2	Switching output
Voltage output	0...10 V
Readiness delay	≤ 1.5 s
Readiness delay	≤ 1500 ms
Response time typical	< 25 ms
Mechanical data	
Design	Tube, M18T
Dimensions	Ø 18 x 81.7 mm
Thread length	54.7 mm
Housing material	Metal, Stainless steel, Grey
Electrical connection	Cable, 9 m, PVC
Number of cores	5
Core cross-section	0.5 mm²
Process connection	M18 x 1
Ambient temperature	-20...+70 °C
Storage temperature	-25...+75 °C
Protection class	IP67

Power-on indication	LED, Green
Switching state	LED, Yellow
Included in delivery	2 M18 × 1 metal hexagon nuts
Tests/approvals	
Approvals	CE