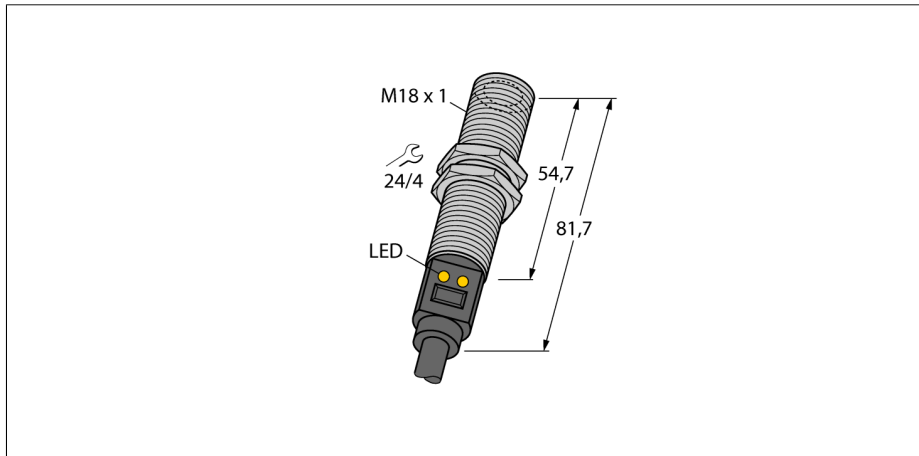
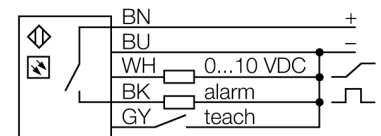


temperature sensors  
infrared sensor  
M18TUP6E



- 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 10 V
- Temperature range 0 ... +300 °C

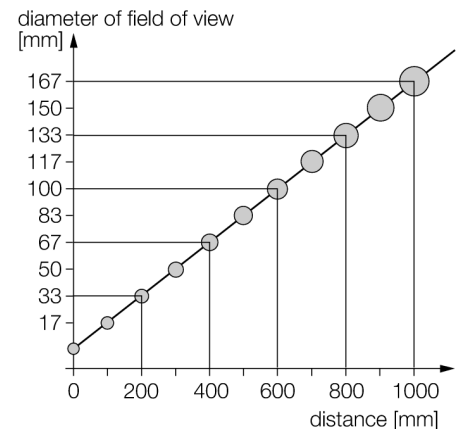
**Wiring diagram**



**Functional principle**

Temperature sensors are used everywhere where temperatures for control and optimisation of processes must be detected 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 conditioned as an output signal. The D:S (distance: spot) ratio, which specifies the measuring field diameter at a defined distance, is important in this context. Complete coverage of this field through the target surface, whose temperature is to be monitored, is the optimal configuration.

**D:S ratio**



<b>Type code</b>	M18TUP6E
Ident no.	3074918
<b>Operating mode</b>	infrared sensor
Ambient temperature	-20...+70 °C
Temperature operating range	≥0...≤300 °C
Switching point accuracy	± 0.5 °C
<b>Operating voltage</b>	12...30VDC
Short-circuit protection	yes/ cyclic
Reverse polarity protection	yes
Output function	NO contact, PNP/analog output
Voltage output	0...10V
Readiness delay	≤ 1.5 s
<b>Design</b>	cylindrical/threaded, M18T
Dimensions	81.7 mm
Housing material	Stainless steel, V2A (1.4301)
Connection	cable
Cable length	2 m
Cable cross section	5 x 0.5 mm <sup>2</sup>
Protection class	IP67
<b>Operating voltage</b>	LED green
Switching state	• yellow