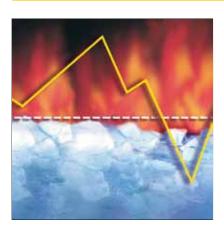
Temperature sensors

Temperature sensors – M18T series



Resistant infrared sensors

Infrared sensors of the M18T series de- µm, is transformed into an electrical sig-0...+300 °C. The sensors operate as receivers and the objects are the heat No matter which device you use, the of an object, normally between 8 and 14 range are easily taught.

tect heat contactless in a range between nal by a thermopile and then converted into an output signal.

emitting sources. The thermal radiation switchpoint as well as the measuring



Non-contact detection of temperature

The rugged MT18 infrared sensors monitor hot objects such as bakery products, metals or bottles. They also monitor flame brazing, blasting or straightening processes and also hot glueing applied in packaging stations, book binding and product assembly.

- Temperature range 0...+300 °C
- Versions with analog output 0...10 V or switching output
- Easy teaching of measuring range or swichtpoint.
- Compact and rugged stainless steel housing for harsh environments

Infrared sensors M18T



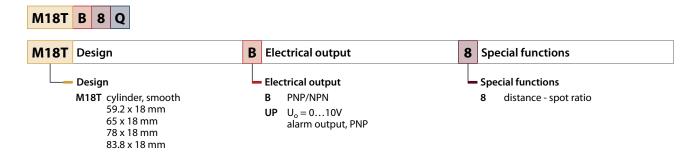
The non-contact sensors of the M18T series are mainly passive receivers. The thermal radiation of an object, normally between 8 and 14 μ m, is transformed into an electrical signal in a thermopile and then converted into an output signal. The D:S (distance: spot) ratio, which specifies the spot diameter at a defined distance, is important in this context. To monitor the surface temperature of the object optimally, the spot should be covered completely by the object.

Available are devices with switching output (NO/ PNP) or with analog voltage output 0...10 V. Easy teaching of measuring range or swichtpoint.

Features

- Temperature range 0...+300 °C
- DS-ratio 6:1, 8:1 and 14:1
- Teaching via pushbutton or cable
- Switching output PNP/NPN or analog output 0...10 V/4...20 mA
- Version with analog output: PNPalarm outputs 10 V/20 mA when reaching the end of the measuring range
- 2 m connection cable or male M12 x 1

Type code M18T





sensor

M18T - Switching output/analog output



 General data

 Protection class
 IP67
 Connection
 male, M12 x 1

 Temperature operating range
 0...300 °C
 Housing material
 V2A (1.4301)

 Ambient temperature
 -20...+70 °C
 Function
 infrared sensor

Types and data – selection table

Туре	Operating voltage	Output	D:S ratio	W	d
M18TB8Q	1030 VDC	, PNP/NPN	8:1	w173	d658
M18TB6EQ	1030 VDC	, PNP/NPN	6:1	w173	d659
M18TB14Q	1030 VDC	, PNP/NPN	14:1	w173	d660
M18TIP8Q	1230 VDC	, PNP/analog output, 420 mA	8:1	w174	d658
M18TIP6EQ	1230 VDC	, PNP/analog output, 420 mA	6:1	w174	d659
M18TIP14Q	1230 VDC	, PNP/analog output, 420 mA	14:1	w174	d660
M18TUP8Q	1230 VDC	, PNP/analog output, 010 V	8:1	w175	d658
M18TUP6EQ	1230 VDC	, PNP/analog output, 010 V	6:1	w175	d659
M18TUP14Q	1230 VDC	, PNP/analog output, 010 V	14:1	w175	d660

Many different types available, also with cable, see type code