

Fast infrared temperature switch for contactless recognizing of hot objects located in its field of view.

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KTS 218 • KTG 218

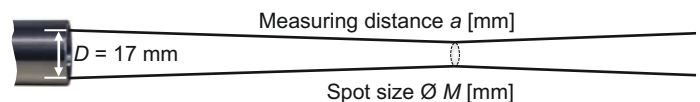


- 2 versions for temperature ranges between 400 and 1500°C
- Switch time only 600 µs
- 10 optics selectable
- LED targeting light for aligning
- Stainless steel housing
- Small dimensions



Technical data:

Temperature range:	KTS 218: 700 - 1500°C KTG 218: 400 - 1400°C
Spectral range:	KTS 218: 0.85 - 1.05 µm KTG 218: 0.85 - 1.8 µm
Optics / measuring distance:	170 mm, 220 mm, 400 mm, 600 mm, 800 mm, 1000 mm, 1400 mm, 1600 mm, 1800 mm, 2000 mm
Output:	Switch voltage 20 V when exceeding the threshold, max. 30 mA
Switch time:	600 µs
Power supply:	24 V DC (± 15%), 60 mA
Uncertainty:	0.75% of reading ($\epsilon = 1$, $T_{amb.} = 23^\circ\text{C}$)
Repeatability:	0.3% of temperature value (emissivity $\epsilon = 1$)
Sighting:	LED targeting light
Ambient temperature:	0 - 70°C
Protection class:	IP65
Dimensions [mm]:	25 x 125 (Ø x l)
Housing:	Stainless steel
CE label:	According to EU directives about electromagnetic immunity



	Reference number	Measuring dist. [mm]	Spot size Ø M [mm]	Reference number
KTS 218 (700 ... 1500°C)	3 844 490	170	2.5	3 844 590
	3 844 400	220	4	3 844 500
	3 844 410	400	5.5	3 844 510
	3 844 420	600	7	3 844 520
	3 844 430	800	10.5	3 844 530
	3 844 440	1000	14	3 844 540
	3 844 450	1400	18	3 844 550
	3 844 460	1600	21	3 844 560
	3 844 470	1800	24.5	3 844 570
	3 844 480	2000	28	3 844 580
KTG 218 (400 ... 1400°C)				

Reference numbers accessories:

- 3 834 230 Adjustable mounting support
- 3 835 180 Air purge unit
- 3 837 440 Cooling jacket
- 3 835 240 90° mirror

Connection cable:

	2 m	5 m	10 m	25 m
3 821 520	... 530	... 540	... 550

The KTS 218 or KTG 218 recognizes without contact hot objects located in its measuring beam, to trigger a switch process. The switching level can be adjusted via potentiometer, the switch status is indicated by LED.

The switch is used for recognizing, counting or positioning of hot objects e.g. in forges or steel works.

The instrument is equipped with a white LED targeting light for exact alignment. During operation the LED is always on.