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Description

The KOBOLD temperature switches work with a bi-metal switch and serve to monitor temperature of liquids in piping and vessels. The instruments are available in brass or stainless steel and are screwed through a G³/₄ screw-in thread into a screwed socket that is welded onto the line or vessel. The temperature contacts have a fixed switch point in intervals of 5 °C in the range 30 °C...50 °C, and in intervals of 10 °C between 50 °C and 120 °C. They are available as N/C or N/O contacts. Standard electrical connection is made through a plug connector, in which a pilot lamp can be integrated as an additional output state indicator.

Technical Data

Contact operation:	N/O contact or N/C contact			
Electrical connection:	plug connector according to			
	DIN 43 650 optional with p	oilot lamp		
Max. Switch capacity:	$250 V_{AC}$, $30 V_{\Gamma}$			
	(TWR-10, TWR-20)			
	$250 V_{AC}$, $42 V_{C}$.0		
	(TWR-30, TWR-40)			
	24 V _{DC} (TWRL) 230 V _{AC} (TWRG)			
Switching current:	0.14 A (TWR-10, TWR-20)			
	0.11 A (TWI		,	
	0.11 A (TWI		,	
1 Januaria a	max. 5 200 mA (TWR-3, TWR-4)			
Housing:	brass or stainless steel 1.4301			
Connection:	G¾ male			
Nominal pressure:	PN 64			
Weight:	0.5 kg			
Ambient temperature:	-30125°C			
Switching hysteresis				
max.:	20°C			
Accuracy:	Switch points	Model		
		TWR-1/2	TWR-3/4	

30...90°C

100...120°C

IP 65

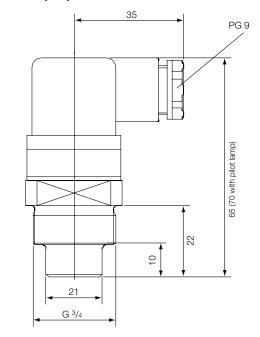
± 5 K

 $\pm 7 \ {\rm K}$

±3K

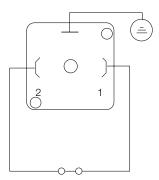
±4 K

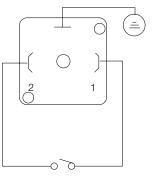
Dimensions [mm]



Electrical connection

TWR-1... TWR-3... TWR-2... TWR-4...





Protection:

Order Details (Example: TWR-11030 L)

Switching function	Model		Switching range	Pilot lamp
(with rising temperature)	Brass	Stainless steel		
N/C contact	TWR-11	TWR-12	030 = 30 °C 035 = 35 °C 040 = 40 °C 045 = 45 °C 050 = 50 °C 060 = 60 °C 070 = 70 °C 080 = 80 °C 090 = 90 °C 100 = 100 °C 110 = 112 °C 120 = 118 °C	0 = without L = LED 24 V_{DC} G = pilot lamp 230 V_{AC}
N/O contact	TWR-21	TWR-22		
N/C contact* (for SPS; intrinsically safe)	TWR-31	TWR-32		
N/O contact* (for SPS; intrinsically safe)	TWR-41	TWR-42		

* instrinsically safe only without pilot lamp