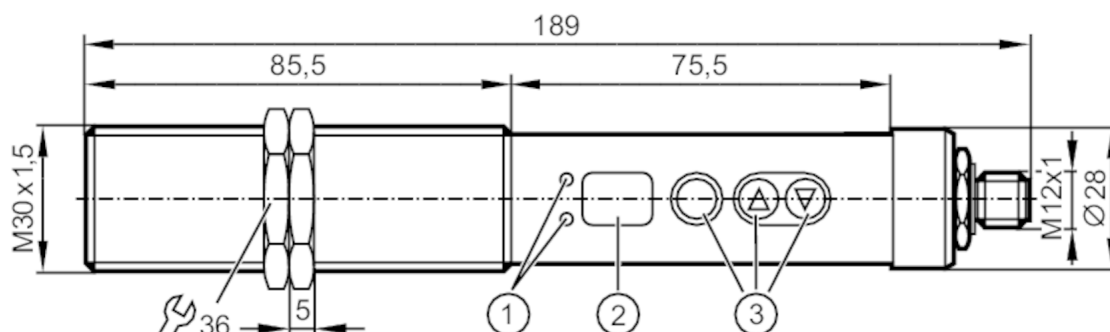


Infrared temperature sensor

TW-006CNDM30-QFPKG/US



- 1 LEDs switching status
- 2 7-segment LED display 2-digit
- 3 programming buttons



Application

Application

tempering temperatures; graphite; ceramics;
metals; forging; sintering; heat treatment; rolling

Electrical data

Operating voltage	[V]	10...34 DC
Current consumption	[mA]	30; (24 V)
Protection class		III

Inputs

Test input	Testfunktion_aktiv_bei_U_test_9_V
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Outputs

Total number of outputs	2
Output signal	switching signal
Electrical design	PNP
Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC	[V] 2.5
Permanent current rating of switching output DC	[mA] 150
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Wave length range	[µm] 1...1.7
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Measuring/setting range

Measuring range	250...1250 °C	482...2282 °F
Factory setting	SP1 = 25 %; rP1 = 23 %; SP2 = 75 %; rP2 = 73 %	
Set point SP	250...1240 °C	482...2264 °F
Reset point rP	250...1240 °C	482...2264 °F
In steps of	10 °C	18 °F

TW7001



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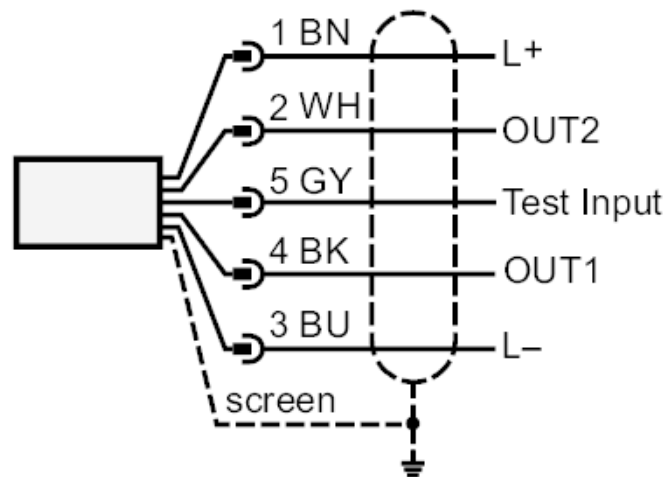
Resolution		
Resolution of switching output	[K]	10
Resolution of display	[K]	10
Accuracy / deviations		
Accuracy	[K]	< ± 1 %; (of VMR (degree of emission = 1 and T = 23 °C))
Response times		
Response time	[ms]	2
Software / programming		
Adjustment of the switch point		programming buttons
Parameter setting options		Hysteresis; normally open / normally closed; switch-on/switch-off delay
Operating conditions		
Ambient temperature	[°C]	0...65
Storage temperature	[°C]	-20...80
Max. relative air humidity	[%]	95; (non condensing)
Protection		IP 65
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	DIN EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV coupling clamp
	DIN EN 61000-4-5 Surge	0,5 / 1 kV
	DIN EN 61000-4-6 HF conducted	10 V
	EN 55011 emission	class B
Shock resistance	DIN EN 60068-2-27	30 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF	[years]	117
Mechanical data		
Weight	[g]	425.2
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 189
Thread designation		M30 x 1.5
Materials		threaded sleeve: stainless steel (1.4305 / 303); polyester
Lens material		tempered optical glass
Displays / operating elements		
Display	switching status	2 x LED, yellow
	function display	7-segment LED display, 2-digit
	measured values	7-segment LED display, 2-digit
Operating elements	3	pushbuttons
Accessories		
Accessories (supplied)		lock nuts: 2
Remarks		
Remarks		MW = measured value MEW = Final value of the measuring range
Pack quantity		1 pcs.

Infrared temperature sensor

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Electrical connection

Connection

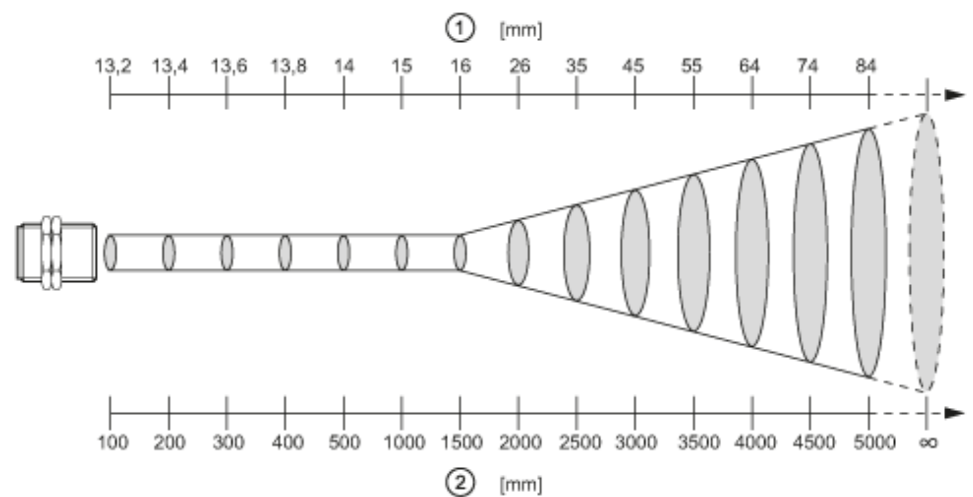


Core colours :

BK =	black
BN =	brown
BU =	blue
GY =	grey
WH =	white

Connector: 1 x M12

Diagrams and graphs



- 1 diameter of the measured spot
- 2 measuring distance