



Process sensors



Infrared temperature sensor with IO-Link and LED pilot light



Temperature sensors



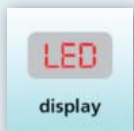
IO-Link, analogue output 4...20 mA and switching output, freely programmable

Adjustable for different target materials

Scratch-resistant precision lenses for minimum sensitivity to ambient light

LED pilot light for alignment and control

Simulation function: activated on the sensor or by external control signal



Non-contact temperature measurement

For the precise temperature measurement of particularly hot objects or objects which are difficult to access, e.g. in the steel, plastics or glass industries. The measured value is provided via the analogue output. In addition, a switching output and an IO-Link interface are provided.

Integrated LED pilot light

The pilot light shows the user the exact position and size of the measuring segment. The green light is visible very well even on glowing surfaces. Besides a low current consumption, the LED is distinguished by a virtually unlimited lifetime.

Batch-related programming

Thanks to the integrated IO-Link communication interface, the parameters can be dynamically adjusted to the application from the control room. Local parameter setting on the unit is not necessary, but can optionally be done via the buttons and the display.



Type	Measuring range [°C]	Wave length range [µm]	Measurement uncer- tainty (for e = 1, Tu = 23 °C)	LED pilot light	Response time [ms]	Order no.
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M30, 1 x analogue, 1 x switching output, NO / NC programmable

IR temperature sensor	0...1000	8...14	1 % of the measured value at least 2K	–	< 100	TW2000
IR temperature sensor	250...1600	1.0...1.7	0.5 % of measured value, min. 4 K	–	< 2	TW2001
IR temperature sensor	500...2500	0.78...1.06	0.3 % of measured value, min. 4 K	–	< 2	TW2002
IR temperature sensor with fibre optic and measuring head	300...1600	1.0...1.7	0.5 % of measured value, min. 4 K	–	< 2	TW2011
IR temperature sensor	0...1000	8...14	1 % of the measured value at least 2K	•	< 100	TW2100
IR temperature sensor	250...1600	1.0...1.7	0.5 % of measured value, min. 4 K	•	< 2	TW2101

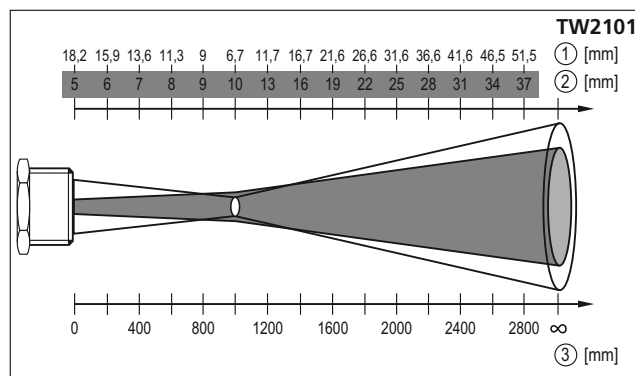
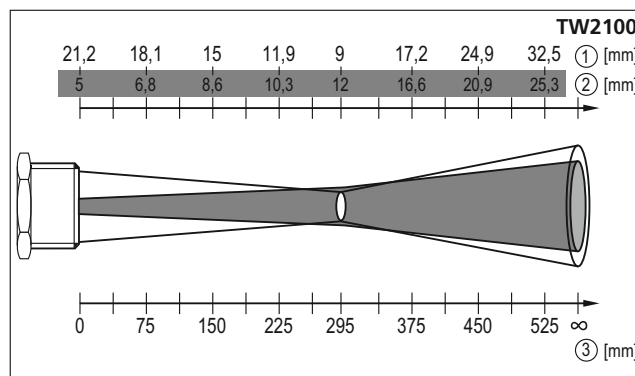
Accessories

Type	Description	Order no.
	Air purge	E35063
	Cooling jacket	E35064
	Mounting bracket	E35065
	Protective tube	E35066
	Heat insulation	E35067
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011
	M12 socket, shielded, 2 m black, PUR cable	EVC547
	M12 socket, shielded, 5 m black, PUR cable	EVC548
	M12 socket, shielded, 2 m black, PUR cable	EVC544
	M12 socket, shielded, 5 m black, PUR cable	EVC545

Common technical data

Operating voltage	[V DC]	18...32
Current consumption	[mA]	≤ 50
Ambient temperature	[°C]	0...65
Protection		IP 65
Reverse polarity protection		•
Short-circuit protection		•
IO-Link revision		1.1

Measuring range / distance



- 1) measuring segment diameter
- 2) measuring distance
- 3) diameter LED pilot light

ifm article no. 78002469 - We reserve the right to make technical alterations without prior notice. - 11/2017