

OI98F005

Temperature sensors • contactless measurement (infrared)

Optical Sensor, Infrared, -50–975°C, 50:1, 8–36 V DC, NO, 0/4–20 mA, 0/5–10 V, terminal, IP65, V4A, measuring head cable length 15 m



Electrical features

Response/decay time	1 ms
Display	LCD display LED display
Type of alarm output	PNP
Type of analog output	0 - 10V 0 - 20mA 0 - 5V 4 - 20mA
Type of electrical connection	Clamped terminal connection
Type of thermocouple	Einstellbar (J oder K)
Rated switching current	50 mA
Setting procedure	Application software Parameterization
No-load current	160 mA
Measuring range, temperature	-50 - 975 °C
Supported communication interface	USB (über Zusatzmodul)
Operating voltage (DC)	8 - 36 V
Adjustable output functions	Switching point
Electrical connection	terminal connection
Operating voltage	8–36 VDC
Accuracy	Systemgenauigkeit (bei Umgebungstemperatur 23 ±5 °C): ±(0,3 % T _{Mess} +2 °C) Reproduzierbarkeit (bei Umgebungstemperatur 23 ±5 °C): ±(0,1 % T _{Mess} +1 °C)
ardTEEL_EinstellbarerEmissionsgrad	0,1 1,1
ardTEEL_EinstellbarerTransmissionsgrad	0,1 - 1,1

Mechanical features

Design	Cuboid
Operating temperature of the measuring head	-20 - 85 °C
Diameter	50 mm
Thread length	30 mm
Thread pitch	1.5 mm
Cable length of measuring head	15 m
Length	100 mm
Degree of protection (IP)	IP65
Housing material	Zinc die-cast
Sensing element material	Stainless steel
Height of the amplifier	30 mm
Length of the amplifier	120 mm
Width of the amplifier	70 mm
Thread dimension	M48
Ambient temperature dimensions	-20 - 85 °C
Line diameter	M48x1.5, 100 mm long
	5 mm

Optical features

Spectral sensitivity	8 - 14 µm
Ratio (D:S)	50:1

Other features

Relative air humidity (non-condensing)	10 - 95 %
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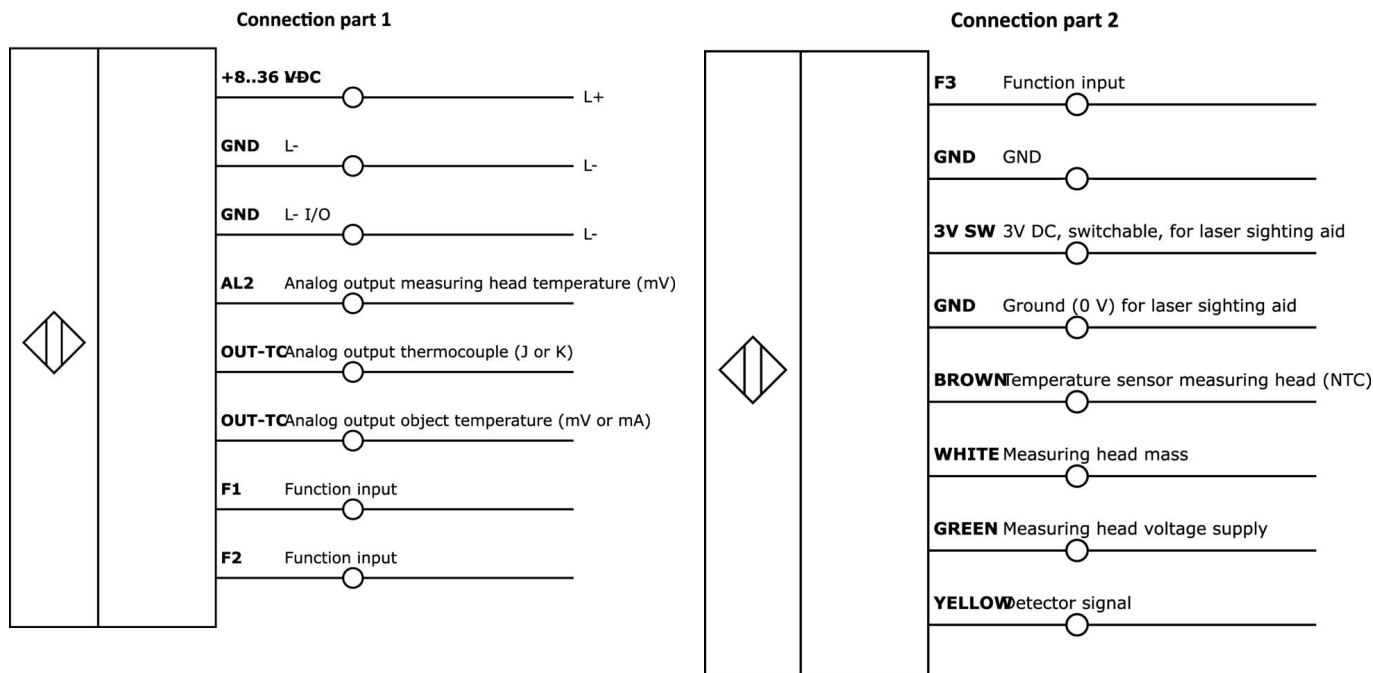
Classification

ETIM 8

More

IPF Product Group	310 temperature sensors
packaging dimensions	
gross weight	
Customs tariff number	90251900
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

AO98C526



accessories optical, Mounting rail adapter, 74x93x2mm, Straight, DIN rail (top hat rail) 35 mm, Metal, Snap connection

VR98A921



Relay interface card, Screw connection, Relay contact NO, Screw connection, IP00

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3
ElektroG: 40951076

Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.