

## OI98C525

### Temperature sensors • contactless measurement (infrared)

Sensor Optical, infrared, Ø14mm, -40-900°C, 22:1, 8-36V DC, NO, 0/4-20mA, 0/5-10V, terminal, IP65, V4A, cable length of sensor head 3m



#### Electrical features

|   |   |
|---|---|
| Response/decay time                           | 150 ms                                  |
| Display                                       | LCD display   LED display               |
| Type of switching function                    | Normally open contact (NO)              |
| 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                          | Simulated (J or K)                      |
| Rated switching current                       | 50 mA                                   |
| Setting procedure                             | Application software   Parameterization |
| No-load current                               | 100 mA                                  |
| Measuring range, temperature                  | -40 - 900 °C                            |
| Relative repeat accuracy                      | 0.5 %                                   |
| Switching function of the alarm output        | Normally open contact (NO)              |
| Temperature drift over entire measuring range | 0.05 %                                  |
| Supported communication interface             | Optional                                |
| Operating voltage (DC)                        | 8 - 36 V                                |
| Data logging possible                         | Yes                                     |
| Output functions                              | Switching point                         |

**Mechanical features**

|   |                        |
|---|------------------------|
| Design                                      | Cuboid                 |
| Operating temperature of the measuring head | -20 - 180 °C           |
| Diameter                                    | 14 mm                  |
| Thread length                               | 10 mm                  |
| Thread pitch                                | 1 mm                   |
| Cable length of measuring head              | 3 m                    |
| Length                                      | 32 mm                  |
| Degree of protection (IP)                   | IP65                   |
| Housing material                            | Stainless steel 1.4571 |
| Height of the amplifier                     | 30 mm                  |
| Length of the amplifier                     | 120 mm                 |
| Width of the amplifier                      | 70 mm                  |
| Thread dimension                            | M12                    |

**Optical features**

|                      |           |
|----------------------|-----------|
| Spectral sensitivity | 8 - 14 µm |
| Ratio (D:S)          | 22:1      |

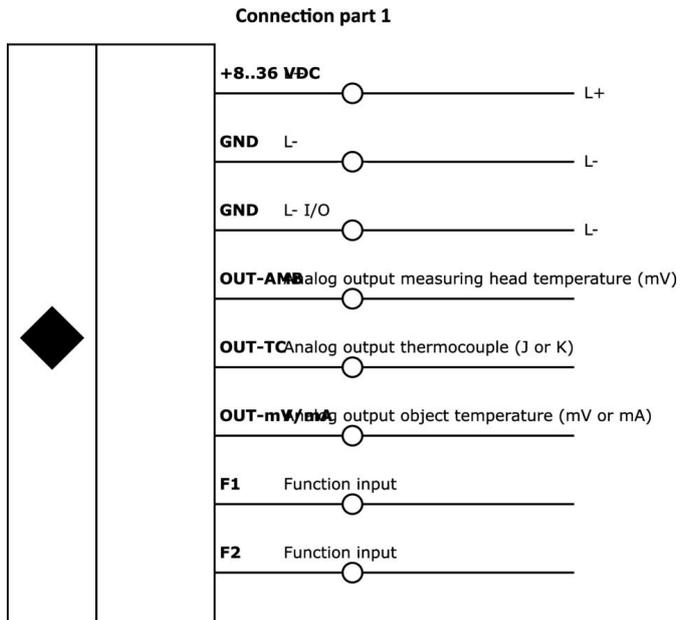
**Classification**

|        |   |
|--------|---|
| ETIM 8 | EC000601 Measuring device for temperature and climate |
|--------|---|

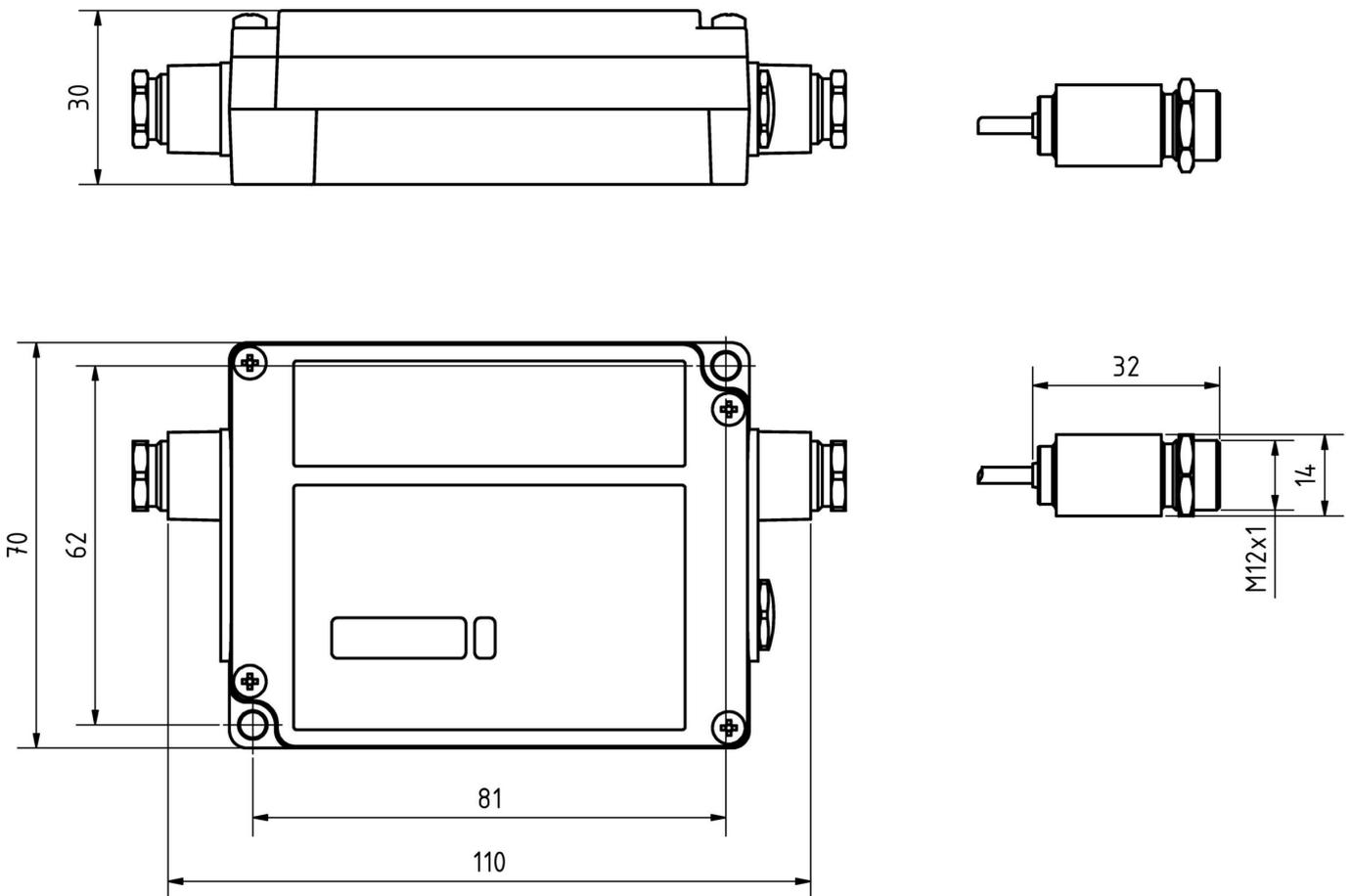
**More**

|                       |                         |
|-----------------------|-------------------------|
| IPF Product Group     | 310 temperature sensors |
| packaging dimensions  | 210 x 145 x 75 mm       |
| gross weight          | 580 g                   |
| Customs tariff number | 90251900                |
| WEEE number           | 40951076                |
| Reach-compliant       | Yes                     |
| RoHS-compliant        | Yes                     |

**Connection**



**Dimensional drawing**



**Extract accessories program**

**AO98C526**



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

**AO98A998**



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.