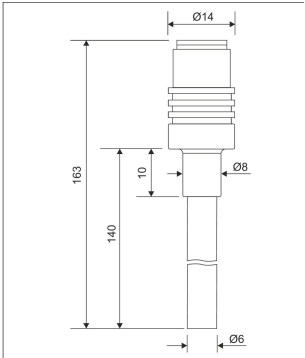


STANDARD TEMPERATURE SENSOR



- ONE ORDER NUMBER
- PT100 CLASS A, 4-WIRE
- MEDIUM UP TO +150 °C
- ONLY APPROX. 23 G
- IP 67



KEY DATA

Property	Value	Property	Value
Input	1x Pt100, 4-wire, class A	Medium	-20 ... +150 °C
Output	resistance, directly at the connector	Ambient	-20 ... +80 °C (1)
Electrical connection	M12x1, 4-pole, A-coded	System pressure	max. 10 bar
Sensor tube	Ø 6 × 0.5 mm, stainless steel 1.4571	Weight	approx. 23 g
Process connection	compression fitting G1/4" or G1/2" (2)	Order number	100-02161

The simplest temperature sensor of this series: a class A Pt100 in four-wire connection led directly to an M12 connector, with no electronics in between. It has no order key but a single order number — accessories and the fitting are ordered separately.



TECHNICAL DATA

INPUT AND OUTPUT

Sensor	1× Pt100
Connection	4-wire
Accuracy	class A
Output	resistance thermometer, terminals directly on the connector
Medium range	-20 ... +150 °C
Electrical connection	M12x1, 4-pole, A-coded
Pin assignment	Pt100 on the four pins
Transmitter	none — the sensor delivers a resistance
Order number	100-02161

PERFORMANCE

Accuracy	class A
Working temperature	-20 ... +80 °C
Storage temperature	-20 ... +85 °C
Medium temperature	-20 ... +150 °C
System pressure	max. 10 bar
Condensation	harmless
Protection	IP 67 with the connector plugged
Housing	completely potted inside
Weight	approx. 23 g
Mounting position	any

SUPPLY AND ENVIRONMENT

Supply	none — a passive sensing element
Ambient	-20 ... +80 °C (1)
Medium	-20 ... +150 °C
Storage	-20 ... +85 °C
Condensation	harmless
System pressure	max. 10 bar

MECHANICS

Process connection	compression fitting G1/4" or G1/2" (2)
Sensor tube	Ø 6 × 0.5 mm, stainless steel 1.4571
Material	stainless steel 1.4571 throughout
Overall length	163 mm, of which 140 mm is tube
Electrical connection	M12x1, 4-pole, A-coded
Mounting position	any
Weight	approx. 23 g
Protection	IP 67, housing potted inside

(1) The ambient temperature is not the medium temperature.

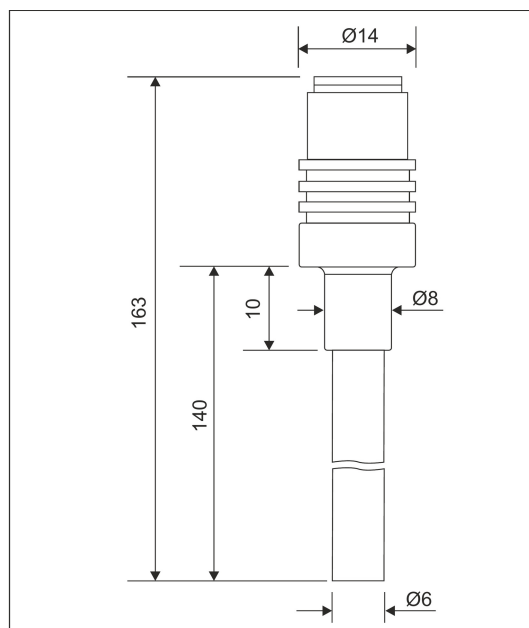
(2) The compression fitting is not included. It has order numbers of its own: G1/4" is 047-00067, G1/2" is 047-00066, steel clamping ring, material stainless steel 1.4571, for Ø 6 mm.

ELECTRICAL CONNECTION

One single connection: M12x1, four-pole, A-coded. The Pt100 sits in four-wire connection directly on the four pins — there is no electronics in the sensor. The mating socket is not included; six connecting cables are listed under ORDER INFORMATION with order numbers of their own.



DIMENSIONS



Dimensions in mm.



CONFORMITY

Protection	IP 67 with the connector plugged
Material to the medium	stainless steel 1.4571

ORDER INFORMATION

Accessories

- Six connecting cables and two compression fittings with order numbers of their own — they are in the grid below. The cables are screened, four-pole, with a metal threaded ring, in two, five and ten metres, straight or angled. None of them is included with the sensor.

ORDER KEY

Field	Value	Meaning
Product code	100-02161	TPMF is ordered by an order number, not by a code
Connecting cable 2 m	1330-00185	angled, 4-pole, screened, PVC
Connecting cable 5 m	1330-00187	angled
Connecting cable 10 m	1330-00189	angled
Connecting cable 2 m	1330-00184	straight
Connecting cable 5 m	1330-00186	straight
Connecting cable 10 m	1330-00188	straight
Fitting G1/4"	047-00067	steel clamping ring, Ø 6 mm, stainless steel 1.4571
Fitting G1/2"	047-00066	steel clamping ring, Ø 6 mm, stainless steel 1.4571

The order code is formed from the product code and the fields of the key.

