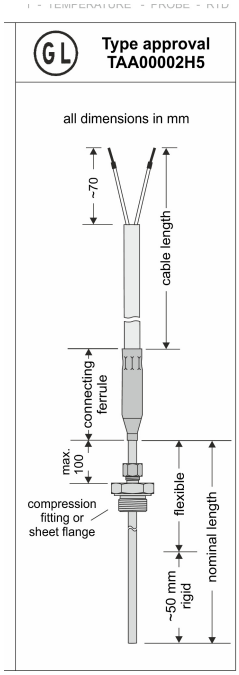
M.I. RESISTANCE THERMOMETER, GL



- GL TAA00002H5
- PT100 AND PT1000
- -200 ... +450 °C
- MAX. 200 MM LENGTH
- IP 65

IP65

Stainless Steel

KEY DATA

Property	Value	Property	Value
Type approval	GL TAA00002H5	Operating range	-200 ... +450 °C
Sensing element	Pt100 or Pt1000, 1× or 2×	Sheath	1.4401 (316)
Circuit	2-, 3- or 4-wire	Ø sheath	1.9 · 3 · 4.5 · 6 mm
Accuracy	class A to B1/10DIN	Cable decides	-5 ... +550 °C by type
Nominal length	standard 100 mm, max. 200 mm	Product code	KM

Mineral insulated resistance thermometer in the version with GL type approval. Compared to TBMC it is limited to 200 mm, its cable to 6 m, and it has one diameter more. The operating range is set by the cable: PVC ends at 70 °C.

TECHNICAL DATA

SENSING ELEMENT

Sensor element	Pt100 · Pt1000 · 2× Pt100 · 2× Pt1000
Circuit	2-wire · 3-wire · 4-wire
Accuracy	class A · class B · B1/2DIN ·
	B1/3DIN · B1/10DIN
Operating range sensor	-200 … +450 °C
Insulator	metal oxide

SHEATH AND LENGTH

Material	1.4401 (316)
Connecting sleeve	1.4571 (316Ti)
Ø sheath	1.9 · 3 · 4.5 · 6 mm
Nominal length	standard 100 mm · option on request
Maximum length	200 mm
Bend radius	min. 5 × Ø sheath
Connection	open ends 70 mm, wire end ferrule
	option without cable, 20 mm stripped
Sleeve to cable	hexagonal crimp · option ring crimp
Cable length	standard 2 m · max. 6 m

CONNECTING CABLE

Connecting cable	PVC-PVC · PTFE-silicone · PTFE-PTFE ·
	PTFE-braided screen-PTFE ·
	glass silk-glass silk-braided screen
Cable length	standard 2 m · option on request, max. 6 m
Protection	IP 65 (up to 250 °C) (1)
Insulation resistance	test voltage 500 VDC

TEMPERATURE AND RESPONSE

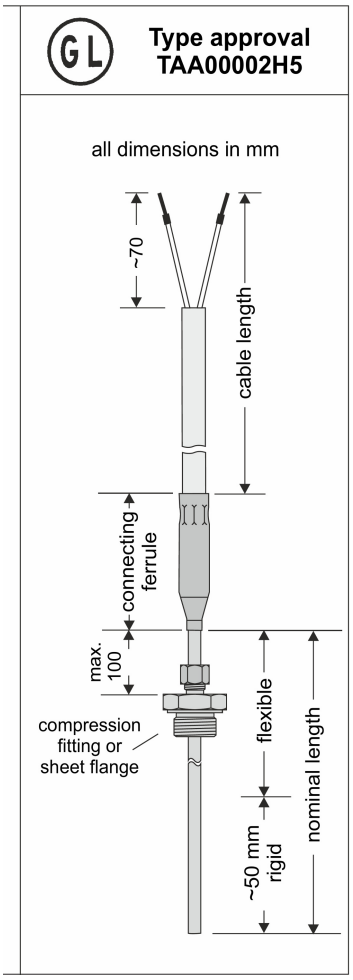
Sensor	-200 … +450 °C
Sheath 1.4401	up to 600 °C
Compression fitting	-75 … +250 °C
Cable PVC	-5 … +70 °C
Cable silicone	-45 … +180 °C
Cable PTFE	-75 … +205 °C
Cable glass silk	-60 … +550 °C

(1) IP 65 does not apply to the braided-screen version.

CONNECTION

Cable with open ends, 70 mm; the transition to the cable is a hexagonal crimp, optionally a ring crimp.

DIMENSIONS


Type approval
TAA00002H5
all dimensions in mm
~70
cable length
connecting ferrule
max. 100
compression fitting or sheet flange
flexible
nominal length
~50 mm rigid

CONFORMITY

Type approval	GL TAA00002H5
Accuracy classes	Class A to B1/10DIN
Protection	IP 65 up to 250 °C, not for the braided-screen version

ORDER INFORMATION

Accessories

- Accessories: compression fitting and sheet metal flange.

ORDER KEY

Field	Value	Meaning
Product code	KM	stands at the beginning of every order code
Sensor element	4 … 7	1× Pt100 · 1× Pt1000 · 2× Pt100 · 2× Pt1000 (2)
Type of sensor	0 … 2	2-wire · 3-wire · 4-wire
Accuracy	0 … 4	class A · class B · B1/2DIN · B1/3DIN · B1/10DIN
Sheath material	0	1.4401 (316)
Ø sheath	0 … 3	0 = 3 · 1 = 4.5 · 2 = 6 · 3 = 1.9 mm
Nominal length	0 · 1	100 mm · other length, maximum 200 mm
Connecting cable	0 … 5	PVC · PTFE-silicone · PTFE · PTFE braided · glass silk · none
Connection	0 · 1	open ends 70 mm · other length
Cable length	0 · 1	2 m · other length, max. 6 m
Used temperature range	—	to be stated by the purchaser, in °C

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

(2) Both versions carry the product code KM; they are told apart by this field alone: 0 … 3 is TBMC, 4 … 7 is TBMD.