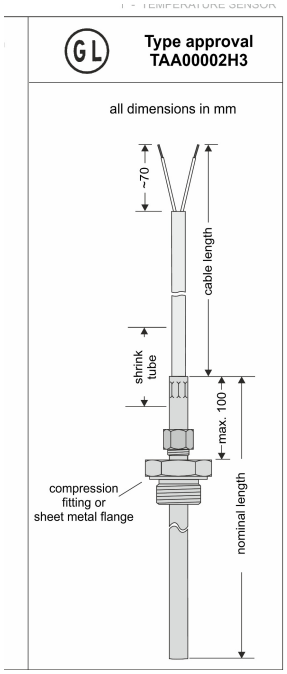
THERMOCOUPLE CABLE PROBE, GL



- GL TAA00002H3
- TYPE J AND TYPE K
- UP TO +1000 °C
- MAX. 200 MM LENGTH
- IP 65

IP65

Stainless Steel

KEY DATA

Property	Value	Property	Value
Type approval	GL TAA00002H3	Operating range	type J -200 … +700 °C
Sensing element	thermocouple type J or type K		type K -200 … +1000 °C
Sheath	1.4571 (316Ti)	Cable decides	-5 … +550 °C by type
Ø sheath	4 · 5 · 6 mm	Protection	IP 65 up to 250 °C
Nominal length	30 … 70 mm, max. 200 mm	Product code	KT

Thermocouple cable probe in the version with GL type approval. Compared to TCMA it is limited to 200 mm and its cable to 6 m. The operating range is set by the cable: PVC ends at 70 °C.

TECHNICAL DATA

SENSING ELEMENT

Thermocouple	type J (Fe-CuNi) · type K (NiCr-Ni)
Accuracy	according to DIN EN 60584-2 class 1
Type J	±1.5 °C (-40 ... 375 °C)
	±0.004|t| (375 ... 750 °C)
Type K	±1.5 °C (-40 ... 375 °C)
	±0.004|t| (375 ... 1000 °C)
Insulator	none

SHEATH AND LENGTH

Material	1.4571 (316Ti)
Ø sheath	4 · 5 · 6 mm
Wall thickness	0.25 ... 1 mm
Connection	open ends 70 mm
Transition to cable	hexagonal crimp · option ring crimp
Strain relief	heat-shrink sleeve · option spring
Nominal length	30 (Ø4) · 50 (Ø5) · 46 (Ø6) · 70 mm (Ø6)
Maximum length	200 mm
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

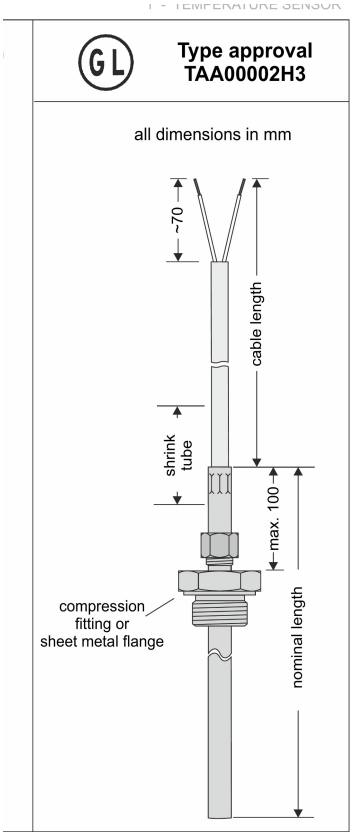
Thermocouple type J	-200 ... +700 °C
Thermocouple type K	-200 ... +1000 °C
Sheath 1.4571	up to 600 °C
Response 6×0.5 mm	t90 18 s · t50 9 s
Response 4×0.3 mm	t90 25 s · t50 9 s
Cable PVC	-5 ... +70 °C
Cable silicone	-45 ... +180 °C
Cable PTFE	-75 ... +250 °C
Cable glass silk	-60 ... +550 °C

(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


GL
Type approval
TAA00002H3
all dimensions in mm
~70
cable length
shrink tube
max. 100
compression fitting or sheet metal flange
nominal length

CONFORMITY

Type approval	GL TAA00002H3
Accuracy standard	DIN EN 60584-2 class 1 — it governs the tolerance of the sensing element, it is not a product approval
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	KT	stands at the beginning of every order code
Type of thermocouple	4 … 7	1× type J · 1× type K · 2× type J · 2× type K (2)
Sheath material	0	1.4571 (316Ti)
Ø sheath	0 … 2	4 · 5 · 6 mm
Nominal length	0 … 5	30 (Ø4) · 46 (Ø6) · 50 (Ø4) · 50 (Ø5) · 70 mm (Ø6) · other, max. 200 mm
Connecting cable	0 … 4	PVC · PTFE-silicone · PTFE · PTFE braided · glass silk
Connection	0 … 3	open ends 70 mm · TC plug standard · mini · other length
Cable length	0 · 1	2 m · other length, max. 6 m
Cable protection	0 · 1	heat-shrink · spring
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 KT; they are told apart by this field alone: 0 … 3 is TCMA, 4 … 7 is TCMB.