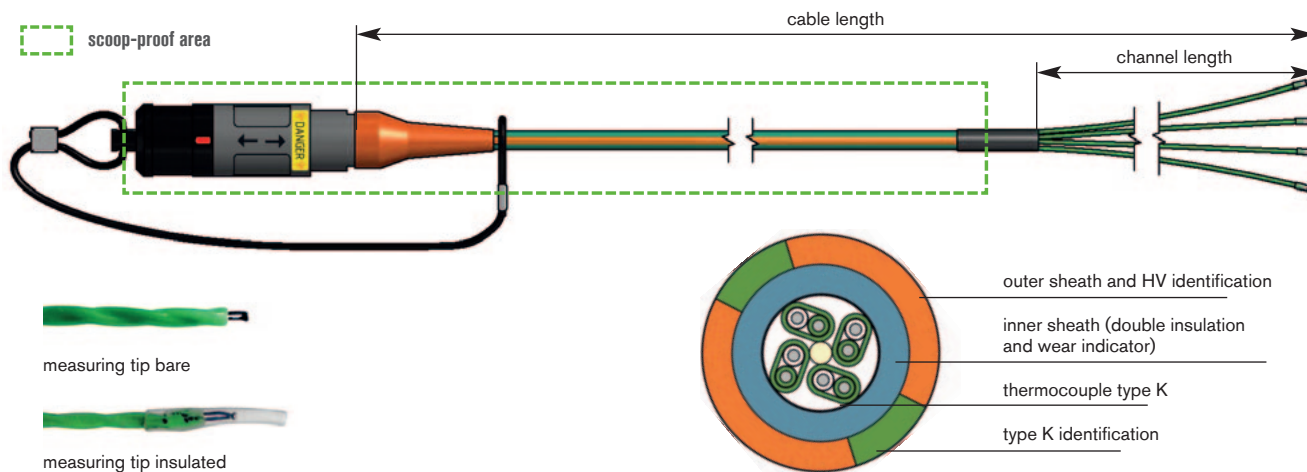


HV temperature sensor type K

HV 4-channel thermocouple as high temperature version

Temperature resistant up to +200°C



Application range:

Safe HV temperature measurement with ambient temperatures up to + 200°C (for example in hardening processes of impregnated motor windings)

Connector:

Lemo Redel male connector with orange kink protection sleeve and black protecting cap, 8-pin, B-coded 1000 V AC voltage-stable – IP 67 when connected

Sensor:

Thermocouple:	4 x type K
Limit deviation:	class 1
Measuring point:	bare or electrically insulated (1000 V)
Temperature range single channel:	-40°C / +250°C
Response time:	on request

Cable data:

Connection cable:	HV thermo cable type K HT
Insulation:	PFA – green and white
Pair sheath:	PFA – green acc. to RAL 6018
Inner sheath:	FEP – blue acc. to RAL 5024
Outer sheath:	Besilen®
Sheath colour:	orange with green vertical stripes
Stranding:	paired construction (for EMC)
Outer diameter:	approx. 4,4 mm
Dielectric strength:	1000 V AC over inner sheath
Temperature range fixed laying:	-40°C / +220°C
flexible application:	-25°C / +220°C
Special characteristics:	high temperature resistant ✓ highly flexible ✓ small cable diameter for narrow spaces ✓

Tests:

► Cable test

over blue inner sheath in water bath – 5000 V AC – 5 min – with reference to EN 50264-2-1

► Sensor test

routine test of harnessed connector with reference to standard 61010-1 for measuring devices as well as VDE indications in our in-house ball bath (released by VDE). Control of contact protection towards outside – 3000 V/1 min AC

Issue of HV test certificate with reference to batch number due to optimum traceability

Optional: Test and repair of already used sensors on request

1.1.4

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CONFIGURATION EXAMPLES

item no.	connection cable length [mm]	single channel length [mm]				type of measuring tip
		channel 1	channel 2	channel 3	channel 4	
T151-061-737	3000	500	500	500	500	insulated
T151-061-736	3000	500	500	500	500	bare

Total cable and channel lengths can be realised on customer's request.

SAB identification:

item number, batch number