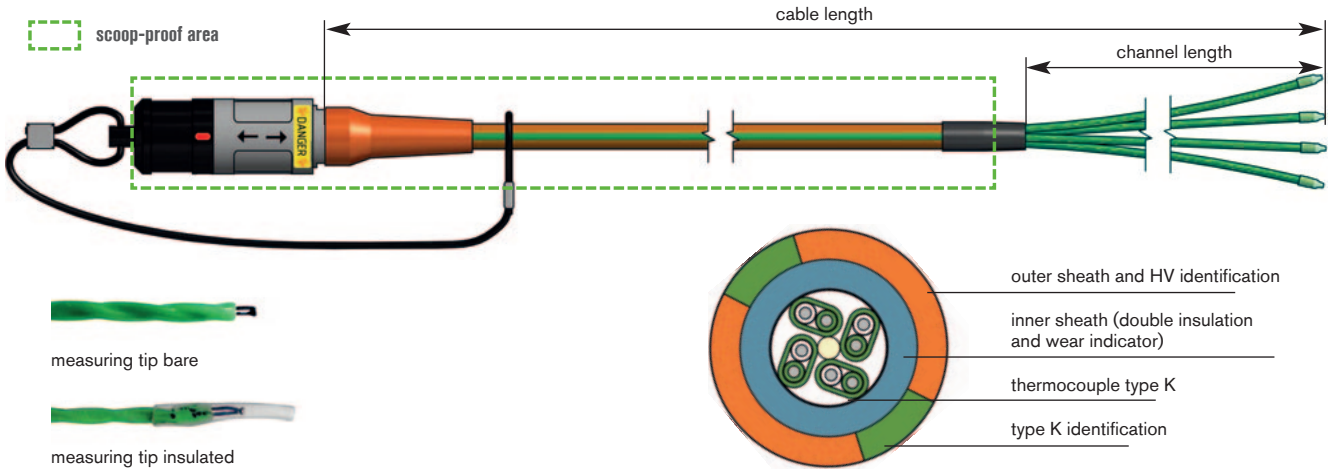




HV temperature sensor type K

HV 4-channel thermocouple with PFA insulated thermo channels



Application range:

Safe HV temperature measurement in HV environments

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
Insulation:	PFA – green and white
Pair sheath:	PFA – green acc. to RAL 6018
Inner sheath:	FEP – blue acc. to RAL 5024
Outer sheath:	PUR
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:	-50°C / +150°C
flexible application:	-40°C / +150°C
Special characteristics:	small cable diameter for narrow spaces ✓

Tests:

► Cable test

over single channel 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

CONFIGURATION EXAMPLES

item no.	connection cable length [mm]	single channel length [mm]				type of measuring tip
		channel 1	channel 2	channel 3	channel 4	
T141-063-016	2400	400	400	400	400	bare
T141-063-018	3000	500	500	500	500	bare
T141-063-019	2400	400	400	400	400	insulated
T141-063-020	3000	500	500	500	500	insulated

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

SAB identification:

item number, batch number