



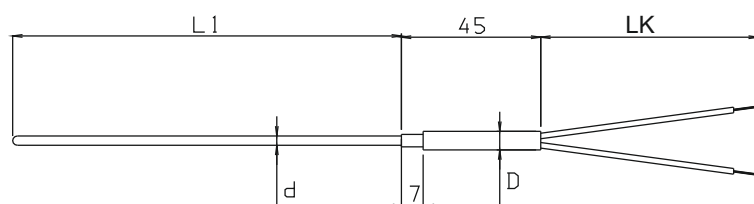
# Thermocouple

# TYPE ML

## Mineral insulated with tails



- Mineral insulated thermocouples - DIN 43721 - are used for reasons such as flexibility, fast response time and good resistance to vibrations, for measurement of temperatures in inaccessible places and harsh environment.
- Thermocouples only available with 1×TC for diameters below  $\varnothing 3$  mm.
- The measuring junction is standard insulated from  $\varnothing 2$  mm and up. The thermocouples are available with grounded measuring junction.  $\varnothing 1$  mm and  $\varnothing 1.5$  mm only available as grounded or measuring junction.
- The thermocouple is insulated with MgO. The tube is sealed at the tails. This sealing must not be exposed to temperatures over  $200^{\circ}\text{C}$ .
- The extension wire is standard insulated with teflon.
- Jacket material for protective sheath is chosen depending on temperature and environment, see separate data sheet.
- The recommended working temperature is dependent on thermowire and jacket material.
- Mechanical connection: Compression fitting, see data sheet for accessories.



Ordering: See ordering form on back page



# ORDERING FORM / THERMO COUPLE TYPE ML

**Type ML**

Imm. length/L1/mmMin. **40 mm**  
 max. 10,000 mm  
 Optional length ....

Sheathdia./d-Neckdia./D/mm  
 1.0 x 8 .....  
 1.5 x 8 .....  
 2.0 x 8 .....  
 3.0 x 10 .....  
 4.5 x 10 .....  
 6.0 x 10 .....  
 8.0 x 12 .....

Jacket material  
 AISI 316 .....  
 Inconel .....  
 Hastelloy .....  
 Microbell .....

V2.2

Tolerance class  
 1 ... 1  
 2 ... 2

Thermoelement -  
 Type/working temperature  
 1 ..... K - NiCr-Ni -40 / +1000°C  
 2 ..... J - Fe-CuNi -40 / +700°C  
 6 ..... N - NiCrSi-NiSi -40 / +1250°C

Number of thermocouples  
 1 ..... 1×TC  
 2 ..... 2×TC (min. ø3 mm)

Wire/LK - mm  
 Min. 50 mm  
 max. 2000 mm  
 Optional length

Connection diagram:

Type	+	-
K	Non-magnetic Green	Magnetic White
J	Magnetic Black	Non-magnetic White
N	Non-magnetic Pink	Magnetic White

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