

# 26

## BRAKE DISC RUBBING THERMOCOUPLE

This thermocouple is used by the automotive industry to monitor brake disc temperature. In design there is a fully floating shoe onto which a miniature mineral insulated thermocouple ( $\varnothing$  0.5 mm) is mounted. A bracket has a threaded hole M6 prepared for fixing the sensor into right position. Sensor incorporates an additional screw with locknut allowing to control the spring pressure

Sensor is supplied with a 300 mm long cable ended with a miniature male connector that is rated to +200°C.

Available thermocouple types: K, J or T

Suitable for use up to +800°C

- fast response
- Monitoring of brake disc temperature up to +800°C
- Easily mounted and adjusted
- MI cable thermocouple with diameter 0.5mm
- Type K, J, T
- Insulated or grounded hot junction
- Stainless steel braided cable with miniature plug



26	Sensor type	Accuracy class	length	Hot junction	Termination type
	Give sensor type, table 1 (e.g. 1K.1J.1T)	Give accuracy class 1 or 2, table I page page 71	Give ss braided cable length (standard is 300 mm)	Give hot junction type: insulated I1 or grounded Z1	Give cold junction type (miniature plug or free leads)

### TAB. ORDERING CODE:

26	1K	1	300	Z1	MW1
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#### 26 – 1K – 1 – 300 – Z1 – MW1

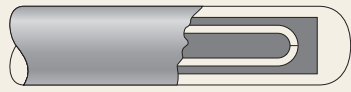
Temperature sensor type K (NiCr-NiAl), accuracy class 1., length of ss braided cable: 300 mm, grounded hot junction, terminated with miniature male connector

**TAB. 1** AVAILABLE TYPES OF SENSOR AND TEMPERATURE RANGE \*)

AVAILABLE TYPES OF SENSOR AND TEMPERATURE RANGE *)			
TYPE	TYPE OF THERMO-ELEKTRODES	LONG-TERM OPERATING RANGE [°C] *)	SHORT-TERM OPERATING RANGE [°C] *)
<b>J</b>	Fe - CuNi	+20 ÷ 700	-180 ÷ 750
<b>T</b>	Cu - CuNi	-185 ÷ 300	-250 ÷ 400
<b>K</b>	NiCr - NiAl	0 ÷ 1100	-180 ÷ 1350

\*) Given temperature range depend on the sheath material. Tolerance to PN-EN 60584-1, table I, page 63

**TAB. 2** HOT JUNCTION TYPES

TYPE	DESCRIPTION	DRAWING
<b>I1</b>	Simplex Insulated Junction	
<b>Z1</b>	Simplex Grounded Junction	