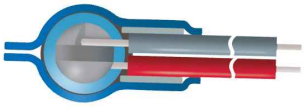
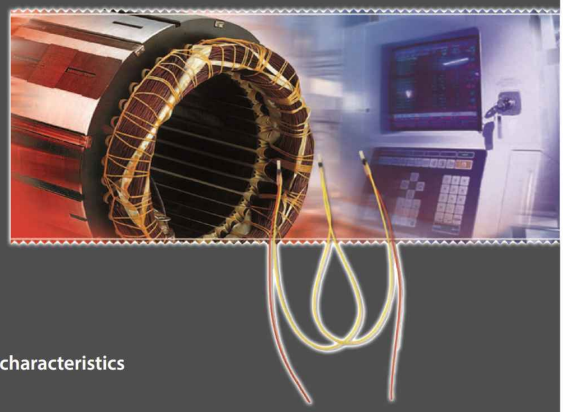


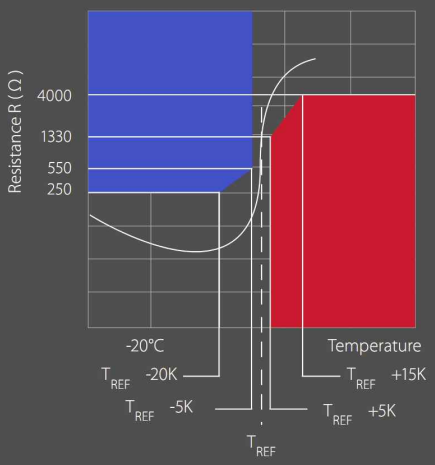
TanPoQiuEr

Type series PTC thermistors

Installation and functions

Where possible, the PTCs are to be inserted parallel to the coil. As a result, when shaping the coil ends, the mechanical stress of the PTCs is minimised. In so doing, the *KYNAR®* shrink cap is highly suited to this purpose due to its mechanical stability (no cold flow in contrast to Teflon®). In connection with the miniature pill (Ø 1.9 mm) response times of 5 to 10 seconds (max.) are achieved depending on the version.





General characteristics

Advantageous values: Rated response temperature T_{REF} 60 °C to 190 °C*, in each case in increments of 10 K.

Temperature range	Resistance	Measured voltage [V_{DC}]
-20 °C to T_{REF} -20 K	20 Ω to 250 Ω	≤ 2,5 V
Temperature range 90 °C - 160 °C		
T_{REF} -5 K	≤ 550 Ω	≤ 2,5 V
T_{REF} +5 K	≥ 1.330 Ω	≤ 2,5 V
T_{REF} +15 K	≥ 4.000 Ω	≤ 7,5 V pulsed

Dielectic strength of the insulation Ueff = 2.500 V

* These parameters relate to T_{REF} from 90 °C to 160 °C. Resistance values for T_{REF} < 90 °C and > 160 °C are available on request.

MZ6

With connector cables; insulation PVDF (KYNAR®)

Insulation material	PVDF (KYNAR®)
Response temperature	60 °C – 190 °C
Operating voltage range	2.5 V DC – 24.0 V DC
max. permissible operating voltage	30.0 V DC
max. recommended sensor voltage	2.5V DC – 7.5V DC
High voltage resistance	2.5 kV
Length of the insulation cap	12.0 mm
Diameter	≤ 2.5 mm

MZ6P

With connector cables; insulation PTFE

Insulation material	PTFE
Response temperature	60 °C – 190 °C
Operating voltage range	2.5 V DC – 24.0 V DC
max. permissible operating voltage	30.0 V DC
max. recommended sensor voltage	2.5 V DC – 7.5 V DC
High voltage resistance	2.5 kV
Length of the insulation cap	12.0 mm
Diameter	≤ 2.0 mm

MZ6T

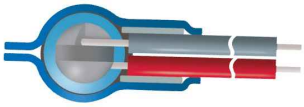
With connector cables; insulation Epoxy

Insulation material	Epoxy
Response temperature	60 °C – 190 °C
Operating voltage range	2.5 V DC – 24.0 V DC
max. permissible operating voltage	30.0 V DC
max. recommended sensor voltage	2.5 V DC – 7.5 V DC
High voltage resistance	2.5 kV
Length of the crimp cable lug	max. 20.0 mm
Diameter	≤ 8.0 mm

MZ6L

With connector cables; insulation in the screw on housing

Insulation material	Fully insulated aluminium housing
Response temperature	60 °C – 190 °C
Operating voltage range	2.5 V DC – 24.0 V DC
max. permissible operating voltage	30.0 V DC
max. recommended sensor voltage	2.5 V DC – 7.5 V DC
High voltage resistance	2.5 kV
Housing height	8.0 mm
Thread length	M 4 / 5.0 mm
Width across flats / Max. torque	10 / 2 Nm



Thermistors

PTC thermistors

PTC thermistors are used for temperature monitoring. They are optimally designed for direct installation into the windings of electric motors and transformers. When employed with compatible circuitry (electronic assemblies, heat sinks, etc.), PTC thermistors prevent overheating of the devices in which they are installed. We offer a selection of insulation sleeves, encasements and fastener-mountings to fit your specific application.

Customised designs

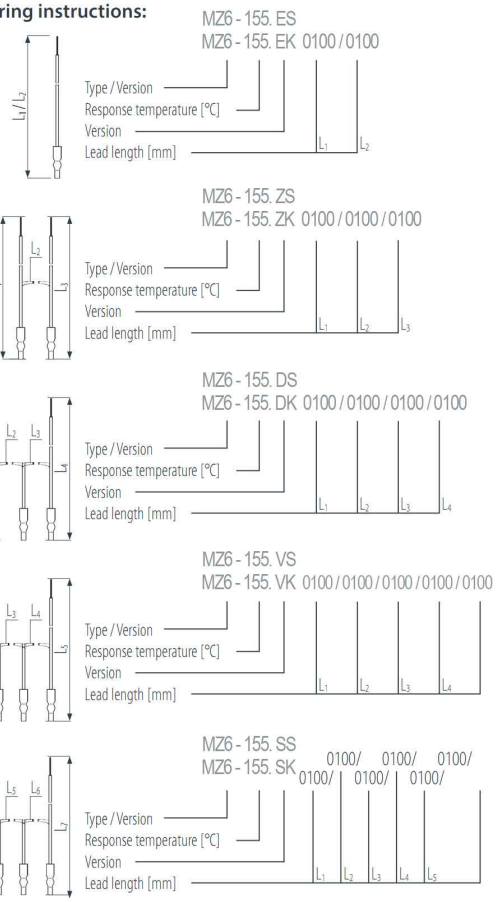
Design K - customised – variations/additions possible upon request:

- Colour coding
- Cable insulation material or cable cross-section
- Cable-end assembly
- Connection technology
- Dielectric strength of the insulation (e.g. suitable for installation in Class II applications)

Advantages

- Small dimensions + mechanical stability
- Fast response
- Temperature-resistance characteristics tailored to the application in question

Ordering instructions:



Version: ES: E-Single, S-Standard (520mm wire length)
EK: E-single, K-custom, Z-dual, D-triple, V-quad, S-sixfold

Colour-coding dependent on temperature according to DIN VDE V0898-1-401:2016 and IEC60034-11:2004

60	70	80	90	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	180	190
white	white	white	green	red	blue	brown	blue	grey	red	blue	red	white	white	black	blue	blue	blue	white	white	black
grey	brown	white	green	red	grey	brown	green	grey	green	blue	brown	blue	black	black	black	red	brown	green	red	brown

* normal trade description including motor protection sensors, PTC thermistors, PTC sensors, PTCs, temperature sensors, etc.