Type 05120, 05121 02827, 02927

Cable temperature sensors KST (KSTz) Pt, Ni

- cable
- cable Ex
  cable with screws
- cable with screws Ex

Characteristics

KST Pt

- measured resistance Pt 100, 3-wire connection

- measured resistance Pt 500, Pt 1000, 2-wire connection

KST Ni

- measured resistance Ni 1000, 2-wire connection

Description - use

The sensors are designed for temperature measuring. The sensor signal can be evaluated for temperature measuring registration or signalisation. Temperature cable sensor **KST Pt** forms measuring resistance Pt imbedded in copper casing length 30 or 44 mm. The signal outlet is by means of silicon cable.

Sensors in design **II3G Ex nA IIC T6...T3 Gc** - it represents non-sparking device „nA“ group „II“ category„3“. They are suitable for environment with explosion hazard zone 2 except for the mines.

Sensor **KST Ni** contains measuring resistance Ni. The construction is identical to sensor KST Pt.

Encased sensor of the sensor is designed for assembly in well **Je**, where it is attached by means of **plastic clamping insert** (see Accessories). The sensor can be used separately, potentialy with attaching or outdoor holder.

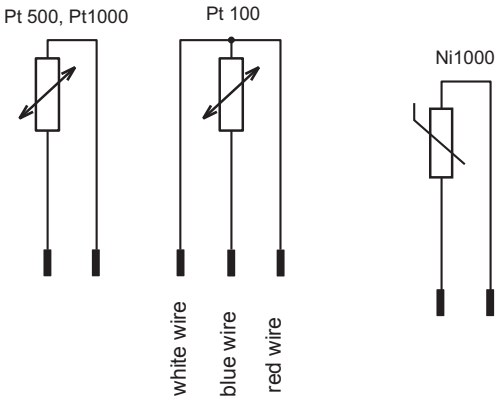
Design **KSTz** with sensor placed in stainless stem with screwing. It is assembled with screwing into the weld-on-piece.

Technical data

Sensor:	**KST Pt**:	Pt 100, Pt 500, Pt 1000
	KST Ni:	Ni 1000
Measuring range:	-40 ÷ +180°C,	
	-30 ÷ +170°C - for KST. Ex	
Measuring current:	1 mA	
Temperature coefficient:	Ni: 5 000, 6 180 ppm/K	
Temperature class:	Pt: B according to ČSN EN 60751	
Design ..Ex (according to ČSN EN 60079-15)		
classification:	**II3G Ex nA IIC T6...T3 Gc**,	
	-30°C ≤ Ta ≤ +170°C,	
Mounting:	KST: free without well, into the well **Je**	
	KSTz: into the weld-on-piece	
Connection:	silicone cable: ∅4 mm,	
	wire: 0,34 mm²	
Ingress protection:	IP 65	
Time factor:	KST: without well:	water 8 s, air 24 s
	with well **Je**:	water 20 s
	KSTz:	air 24 s
		water 8 s

Max. overpressure KSTz: 4 MPa/100°C, 3,1 MPa/180°C

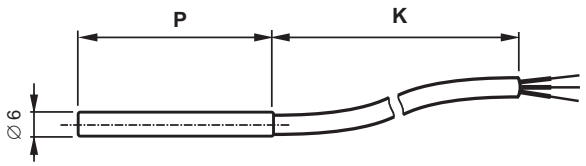
Sensor connection



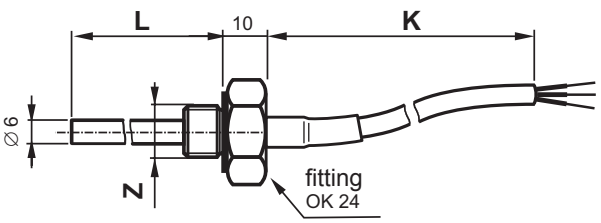
Connection **KST .. Pt**

Connection **KST .. Ni**

Dimension drawing



Cable sensor **KST**



Cable sensors **KSTz**

Ordering devices

Code	Name
40 05120 8	Cable temperature sensor **KST**

Code	Measuring resistance
0	Pt100
2	Pt500
3	Pt1000
4	Ni1000, 5000 ppm/K
5	Ni1000, 6180 ppm/K

Code	Casing P [mm]
30	44
31	30

Code	Cable K [m]
01	1,6
02	2,5
03	4,0
04	6,0

40 05120 8	3	30	03	Ordered No.

Order example: 1 temperature sensor, type 05120 (KST), Pt1000, casing 44 mm, cable 4 m.

Code	Name
40 05121 8	Cable temperature sensor **KST.Ex**

Code	Measuring resistance
0	Pt100
2	Pt500
3	Pt1000
4	Ni1000, 5000 ppm/K
5	Ni1000, 6180 ppm/K

Code	Casing P [mm]
30	44

Code	Cable K [m]
01	1,6
02	2,5
03	4,0
04	6,0

40 05121 8	0	30	02	Ordered No.

Order example: 1 temperature sensor, type 05121 (KST.Ex), Pt100, casing 44 mm, cable 2.5 m.

Code	Name
40 02827 9	Cable temperature sensor **KSTz**

Code	Measuring resistance
0	Pt100
2	Pt500
3	Pt1000
4	Ni1000, 5000 ppm/K
5	Ni1000, 6180 ppm/K

Code	Screw thread
1	G 1/4
2	M 12 x 1,5
3	G 1/2
4	M 20 x 1,5

Code	Stem L [mm]
03	30
04	40
06	60
10	100
16	160
25	250

Code	Cable K [m]
1	1,6
2	2,5
4	4,0
6	6,0

40 02827 9	0	2	10	2	Ordered No.

Order example: 1 temperature sensor, type 02827 (KSTz), Pt100, thread screws M12 x 1,5, stem length 100 mm, cable 2,5 m.

Code	Name
40 02927 9	Cable temperature sensor **KSTz.Ex**

Code	Measuring resistance
0	Pt100
2	Pt500
3	Pt1000
4	Ni1000, 5000 ppm/K
5	Ni1000, 6180 ppm/K

Code	Screw thread
1	G 1/4
2	M 12 x 1,5
3	G 1/2
4	M 20 x 1,5

Code	Stem L [mm]
03	30
04	40
06	60
10	100
16	160
25	250

Code	Cable K [m]
1	1,6
2	2,5
4	4,0
6	6,0

40 02927 9	0	1	10	4	Ordered No.

Order example: 1 temperature sensor, type 02927 (KSTz.Ex), Pt100, thread screws G1/4, stem length 100 mm, cable 4 m.

Warranty

24 months warranty is provided from the delivery date unless specified otherwise in the purchase contract.

Catalogue sheet **KLA 28/34/06-14**