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JUMO Process Control, Inc.

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Measuring inserts for screw-in thermocouples and resistance thermometers with terminal head Form B

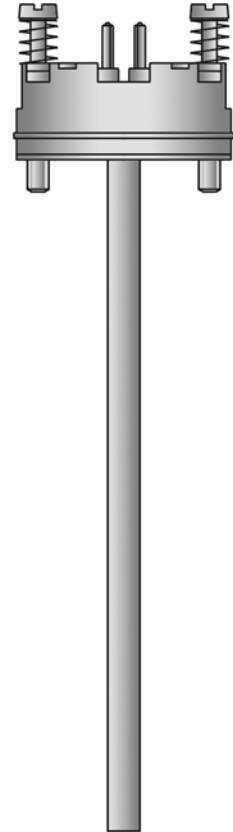
- for temperatures from -200 to +1150 °C
- as single or twin insert
- available with transmitter

The inserts are suitable for screw-in thermocouples according to Data Sheet 90.1020, as well as for screw-in resistance thermometers to Data Sheets 90.2020 and 90.2820.

A mineral-insulated insert has to be used for insert lengths from 800mm.

The measuring inserts for screw-in resistance thermometers are normally fitted with a Pt100 temperature sensor to EN 60 751, Class B in 2-wire circuit. Versions with Pt500 or Pt1000 can also be supplied. There is a choice of 3-or 4-wire circuit connections.

A transmitter can optionally be used instead of the terminal block.



Technical data

Terminal block

suitable for terminal heads Form B, BBK and BUZ.

Caution: reduced ambient temperatures when using a transmitter instead of the terminal block, Data Sheets 70.7030 and 70.7010

Protection tube

- stainless steel 1.4571 (for 909740/10... and 909742/30...)
- stainless steel 1.4571 (rigid part)
sheath st. steel 1.4541 (flexible part) (for 909740/20...)
- sheath Inox 1.4541 (for 909742/40-...-.042...)
- sheath Inconel 2.4816 (for 909742/40-...-.043...)

Transmitter

analog transmitter, output 4 to 20mA, for resistance thermometers, Data Sheet 70.7030

analog transmitter, output 0 to 10V, for resistance thermometers, Data Sheet 70.7030

programmable transmitter, output 4 to 20mA/20 to 4mA, for thermocouples or resistance thermometers, Data Sheet 70.7010

Application

insert for screw-in thermocouples / resistance thermometers according to Data Sheets 90.1020, 90.2020 and 90.2820

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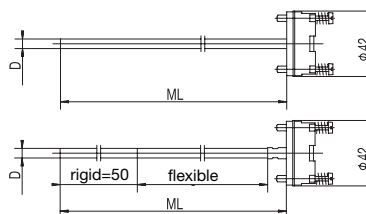
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Order details: Measuring inserts for screw-in resistance thermometers with terminal head Form B

(1) Basic version

	909740/10	Inserts to DIN 43 762 for screw-in resistance thermometers to DIN 43 765/66, Form B und C
	909740/20	Insert similar to DIN 43 762 as mineral-insulated resistance thermometer
	(2) Operating temperature in °C	
x	150	-200 to +600 °C
x	402	- 50 to +400 °C (standard with 909740/10)
x	415	- 50 to +600 °C (standard with 909740/20)
	(3) Measuring insert	
x	1001	1 x Pt100 in 3-wire circuit
x	1003	1 x Pt100 in 2-wire circuit
x	1011	1 x Pt100 in 4-wire circuit
x	2001	2 x Pt100 in 3-wire circuit (only in conjunction with D 6mm)
x	2003	2 x Pt100 in 2-wire circuit
	(4) Tolerance class to EN 60 751	
x	1	Class B (standard)
x	2	Class A
x	3	Class 1/3 DIN
	(5) Measuring insert diameter D in mm	
x	3	3mm
x	6	6mm
	(6) Measuring insert length ML in mm (with 909740/10 ML max. = 800mm)	
x	315	315 mm (for resistance thermometer 902020/10-...-...-...-160-.../...)
x	405	405 mm (for resistance thermometer 902020/10-...-...-...-250-.../...)
x	555	555 mm (for resistance thermometer 902020/10-...-...-...-400-.../...)
x	...	please specify in plain text
	(7) Extra codes	
x	000	no extra code
x	330	1 x analog transmitter, output 4 to 20mA ² , Data Sheet 70.7030
x	331	1 x programmable transmitter, output 4 to 20mA/20 to 4mA ³ , Data Sheet 70.7010
x	333	1 x analog transmitter, output 0 to 10V ² , Data Sheet 70.7030
x	337	2 x analog transmitter, output 0 to 10V ² , Data Sheet 70.7030



Order code (1) (2) (3) (4) (5) (6) (7) , ...
 - - - - - / , ...
Order example 909740/10 - 402 - 1003 - 1 - 6 - 315 / 000¹

- List extra codes in sequence, separated by commas.
- Please specify range in plain text.
- Please specify range and output signal in plain text.

Stock version

(1) (2) (3) (4) (5) (6) (7) Sales No.
 - - - - - / 90/00039286
 909740/10 - 402 - 1003 - 1 - 6 - 315 / 000

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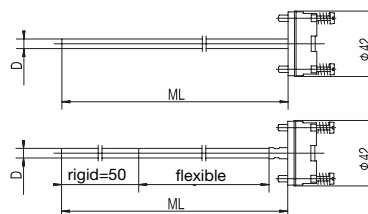
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Order details: Measuring inserts for screw-in thermocouples with terminal head Form B

(1) Basic version

	909742/30	Inserts for screw-in thermocouples
	909742/40	Mineral-insulated inserts for screw-in thermocouples
	(2) Operating temperature in °C	
x	150	-200 to + 600°C
x	165	-200 to + 800°C
x	182	-200 to +1150°C (only in conjunction with NiCr-Ni K)
	(3) Measuring insert	
x x	1042	1 x Fe-Con L
x x	1043	1 x NiCr-Ni K
x x	2042	2 x Fe-Con L
x x	2043	2 x NiCr-Ni K
	(4) Measuring insert diameter D in mm	
x	3	3mm
x x	6	6mm
	(5) Measuring insert length ML in mm (with 909742/30 ML max. = 800mm)	
x x	315	315mm (for thermocouple 901020/10-...-...-...-160-.../...)
x x	405	405mm (for thermocouple 901020/10-...-...-...-250-.../...)
x x	555	555mm (for thermocouple 901020/10-...-...-...-400-.../...)
x x	...	please specify in plain text
	(6) Extra codes	
x x	000	no extra code
x x	331	1 x programmable transmitter, output 4 to 20mA/20 to 4mA ³ , Data Sheet 70.7010



Order code (1) (2) (3) (4) (5) (6)
 - - - - /
Order example 909742/30 - 150 - 1042 - 6 - 405 / 331

3. Please specify range and output signal in plain text.