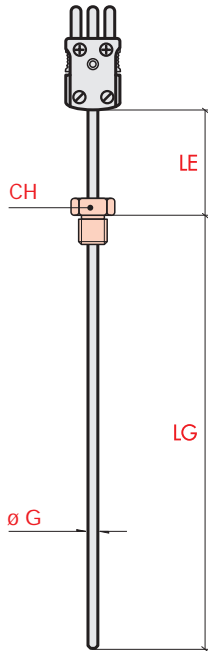




Certificata ISO 9002  
Centro taratura SIT **JIT**

ELSI s.r.l. - via Milano, 11 - 20020 Lainate (MI)  
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# General purpose MgO sensors



**Electrical connection**

Single element: 2/3 wire (White A, Red B, Red B)

Dual element: 4/6 wire (White A1, White A2, Red B1, Red B1, Red B2, Red B2)

**Mounting Fittings**  
(for models without fixed attaching device only)

Suggested adjustable compression fittings

Material	ø1	L	CH	øG	Model
AISI 316	1/8" G	10.5	12	2	Z1 RFS-B/EO20
	1/8" NPT	10.5	12	2	Z1 RFS-B/MO20
	1/8" G	10.5	12	3	Z1 RFS-B/EO30
	1/8" NPT	10.5	12	3	Z1 RFS-B/MO30
	1/8" G	10.5	12	4.5	Z1 RFS-B/EO45
	1/8" NPT	10.5	12	4.5	Z1 RFS-B/MO45
	1/4" G	12	17	6	Z1 RFS-B/FO60
Treated brass	1/4" G	12	17	6	Z1 RFS-O/FO60
	1/2" G	14	24	6	Z1 RFS-O/IO60

**P3** RTD with o.d. from 2 to 6mm, with optional fixed attaching device

Plug	Diameter ø G mm	Base code	Value in Ω at 0°C	Element N° and limits	Type of RTD	Sheath material	Sheath LG mm	Type of thread	Extension LE mm
Standard plug 	2	P3 G20	P Pt100 DIN - IEC	0 3-wire single el. Cl. B (1 DIN)	0 Ceramic 750 °C max	B AISI 316	0100	S None	00 None
	3	P3 G30							
	4.5	P3 G45							
	6	P3 G60							
Miniature plug 	2	P3 D20		1 3-wire single el. Cl. A (1/2 DIN)			0150	D M10 x 1.5 - L13 CH - 14	05 50
	3	P3 D30		2 3-wire single el. 1/3 DIN			0200	ET 1/8" Gas - L12 CH - 14	08 80
	4.5	P3 D45		3 4-wire single el. Cl. A (1/2 DIN)			0250	F 1/4" Gas - L13 CH - 17	
	6	P3 D60		4 4-wire single el. 1/3 DIN			0300	H 3/8" Gas - L15 CH - 22	
Cylindrical plug ø 17 	2	P3 J20		5 *4-wire dual Cl. B (1 DIN)			0350	I 1/2" Gas - L15 CH - 24 (ø > 2 only)	
	3	P3 J30		6 *6-wire dual el. Cl. B (1 DIN)			0400	M 1/8" NPT - L10 CH - 14	
	4.5	P3 J45		7 *6-wire dual el. Cl. A (1/2 DIN)			0450	N 1/4" NPT - L13 CH - 17	
	6	P3 J60		8 *6-wire dual el. 1/3 DIN			0500	Q 1/2" NPT - L15 CH - 24 (ø > 2 only)	
Male ø 12 cylindrical plug 	2	P3 R20							
	3	P3 R30							
	4.5	P3 R45							
	6	P3 R60					L min 0080		

Note: other lengths on request for LG and LE. Code ex.: LG = 135mm cod. 0135 / LE = 60mm cod. 06

**Reference model:**

Straight MgO RTD, standard plug, 4.5mm sheath o.d., 3-wire Pt100 single element, class B (1 DIN), ceramic element, AISI316 sheath, 100mm length, no attaching device and no extension.

**P3 G45 - P 0 0 - B 0100 - S 00**

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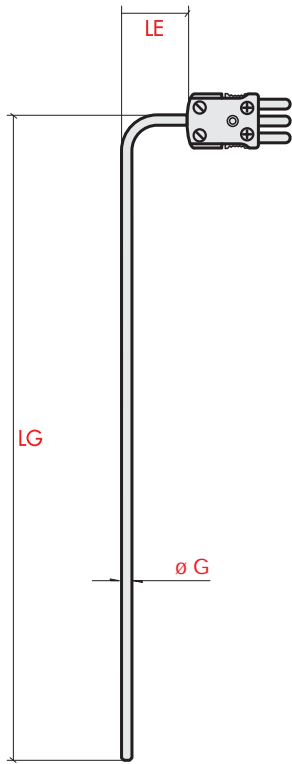




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# General purpose MgO sensors



**Connections**

**Single element**

2/3 wire: White (A), Red (B), Red (B)

4 wire: White (A), White (A), Red (B), Red (B)

**Dual element**

4/6 wire: White (A1), White (A2), Red (B1), Red (B1), Red (B2), Red (B2)

**Mounting Fittings**  
(for models without fixed attaching device only)

Suggested adjustable compression fittings

Material	ø1	L	CH	øG	Model
AISI 316	1/8"G	10.5	12	4.5	Z1 RFS-B/E050
	1/8"NPT	10.5	12	4.5	Z1 RFS-B/M050
	1/4"G	12	17	6	Z1 RFS-B/F060
	1/2"G	14	24	6	Z1 RFS-B/I060
	1/4"G	12	17	8	Z1 RFS-B/F080
	1/2"G	14	24	8	Z1 RFS-B/I080
Treated brass	1/4"G	12	17	6	Z1 RFS-O/F060
	1/2"G	14	24	6	Z1 RFS-O/I060
	1/4"G	12	17	8	Z1 RFS-O/F080
	1/2"G	14	24	8	Z1 RFS-O/I080

**P4** 90° angle RTD,  
o.d. from 4.5  
up to 8mm, with plug.

Plug	Diameter ø G mm	Base code	Value in Ω at 0°C	Element N° and limits	Type of RTD	Sheath material	Sheath LG mm	Extension LE mm
Standard plug 	4.5	P4 G45	P Pt100 DIN - IEC	0 3-wire single el. Cl. B (1 DIN)	O Ceramic 750 °C max	B AISI 316	O100	O3 30
	6	P4 G60						
	8	P4 G80						
Miniature plug 	4.5	P4 D45		1 3-wire single el. Cl. A (1/2 DIN)			O150	O5 50
				2 3-wire single el. 1/3 DIN			O200	O8 80
				3 4-wire single el. Cl. A (1/2 DIN)			O250	
				4 4-wire single el. 1/3 DIN			O300	
Cylindrical plug ø 17 	4.5	P4 J45		5 4-wire dual Cl. B (1 DIN)			O350	
		P4 J60		6 6-wire dual el. Cl. B (1 DIN)			O400	
		P4 J80		7 6-wire dual el. Cl. A (1/2 DIN)			O450	
Male ø 12 cylindrical plug 	4.5	P4 R45		8 6-wire dual el. 1/3 DIN			O500	
							L min O080	

Note: other lengths on request for LG and LE. Code ex.: LG = 135mm cod. 0135 / LE = 60mm cod. 06

**Reference model:**

90° angle MgO RTD, standard plug, 4.5 sheath o.d., 3-wire Pt100 single element, class B (1 DIN), ceramic element, AISI 316 sheath, 100mm length, 30mm extension.

**P4 G45 - P 0 0 - B 0100 - 03**

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