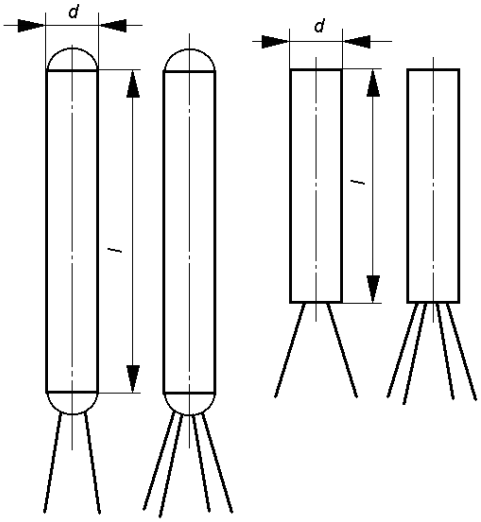
THERMOMETER RESISTORS
1xPt100, 2xPt100, 1xPt500, 2xPt500, 1xPt1000, 2xPt1000, 1xNi100, 2xNi100, Cu53,Cu100



Thermometer resistors are designed for industry resistance sensor applications and enable using in measuring inserts. Depending on measuring and construction parameters 1x,2x wire configuration is used, wire, ceramic and glass, thin-film and thin-film in a can.

RESISTOR SPECIFICATION

Type	Temp. range	Class	Characteristic
OP-A Pt100	-200 do+600°C	B	PN-EN-60751+A2
OP-A Pt100	-50 do +450°C	A	
OP-A Pt100	-50 do +150°C	1/3 B	
OP-A Pt100	0 do +100°C	1/5 B	
ON-A Ni100	-60 do +150°C	-	
FR Pt-100	-70 do +500°C	B, A, 1/3 B	
FR Pt500,1000	-70 do +500°C	B	
GX Pt100	-200 do +400°C	B, A	
GN Pt100	-200 do +400°C	B, A	

Note: Quartz resistors Pt100 available, shock-proof (glass) and fhin-film resistors Pt100, Pt500 i Pt1000, also in classes 1/5B i 1/10B

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Resistor types and dimensions

Ceramic wire type	Nominal resistance Ω	Dimensions d x l [mm]	Self-heating (air) (°C/mW)	Time of response water, *v* = 0,4 m/s	
				$T_{0,5}$	$T_{0,9}$
OP-A1b	1xPt100	1,5x15	0,08	0,20	0,6
OP-A1	1xPt100	1,5x25	0,08	0,20	0,6
OP-A2	1xPt100	2,6x30	0,08	0,25	0,7
OP-A3	1xPt100	2,8x30	0,06	0,25	0,7
OP-A4	1xPt100	3,0x30	0,06	0,25	0,9
OP-A5	1xPt100	3,5x30	0,06	0,30	1,1
OP-A6	1xPt100	4,0x30	0,06	0,35	1,4
OP-A7	1xPt100	4,5x18	0,08	0,30	1,2
OP-A8	1xPt100	4,5x30	0,06	0,35	1,4
OP-A9	1xPt100	5,0x60	0,06	0,35	1,4

Ceramic wire type	Nominal resistance Ω	Dimensions d x l [mm]	Self-heating (air) [°C/mW]	Time of response water, *v* = 0,4 m/s	
				$T_{0,5}$	$T_{0,9}$
OP-A10a	2xPt100	2,6x30	0,06	0,25	0,7
OP-A11	2xPt100	3,0x30	0,06	0,30	1,0
OP-A12	2xPt100	3,5x30	0,06	0,30	1,1
OP-A13	2xPt100	4,0x30	0,06	0,30	1,4
OP-A14	2xPt100	4,5x30	0,06	0,35	1,4
OP-A15	2xPt100	5,0x60	0,06	0,35	1,4
OP-A20	3xPt 100	4,5x30	0,06	0,35	1,4

Thin-film type	Nominal resistance Ω	Dimensions d x l [mm]	Self-heating (air) [°C/mW]	Time of response water, *v* = 0,4 m/s	
				$T_{0,5}$	$T_{0,9}$
FR 2813	1xPt100	2,8x13	0,06	0,25	0,7
FR 4513	1xPt100	4,5x13	0,06	0,30	1,2
FR 2813	1xPt500	2,8x13	0,06	0,25	0,7
FR 4513	1xPt500	4,5x13	0,06	0,30	1,2
FR 2813	1xPt1000	2,8x13	0,06	0,25	0,7
FR 4513	1xPt1000	4,5x13	0,06	0,30	1,2

Thin-film type	Nominal resistance Ω	Dimensions d x l [mm]	Self-heating (air) [°C/mW]	Time of response water, *v* = 0,4 m/s	
				$T_{0,5}$	$T_{0,9}$
FR 2813	2xPt100	2,8x13	0,06	0,25	0,7
FR 4513	2xPt100	4,5x13	0,06	0,30	1,2
FR 2813	2xPt500	2,8x13	0,06	0,25	0,7
FR 4513	2xPt500	4,5x13	0,06	0,30	1,2
FR 2813	2xPt1000	2,8x13	0,06	0,25	0,7
FR 4513	2xPt1000	4,5x13	0,06	0,30	1,2

Glass wire type	Nominal resistance Ω	Dimensions d x l [mm]	Self-heating (air) [°C/mW]	Time of response water, *v* = 0,4 m/s	
				$T_{0,5}$	$T_{0,9}$
GX138	1xPt100	1,3x8	0,06	0,25	0,7
GN2713	1xPt100	2,7x13	0,06	0,30	1,1
GN4515	1xPt100	4,5x15	0,08	0,30	1,2

Ordering Example

ITEM SYMBOL: OP-A10a-2xPt100-1/3B, OP-A1-1xPt100-A , FR 2813-1xPt100-B, GX2713-1xPt100-A

Co oznacza :

Following symbols means :resistor types (dimensions), nominal resistance Ω (Pt,Ni,Cu), class acc. to norm PN-EN 60751+A2 pt.3.3