

DATASHEET

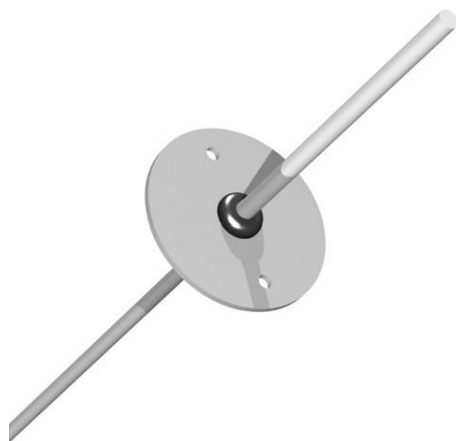
ET204

Evikon

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HVAC/R temperature sensor ET204

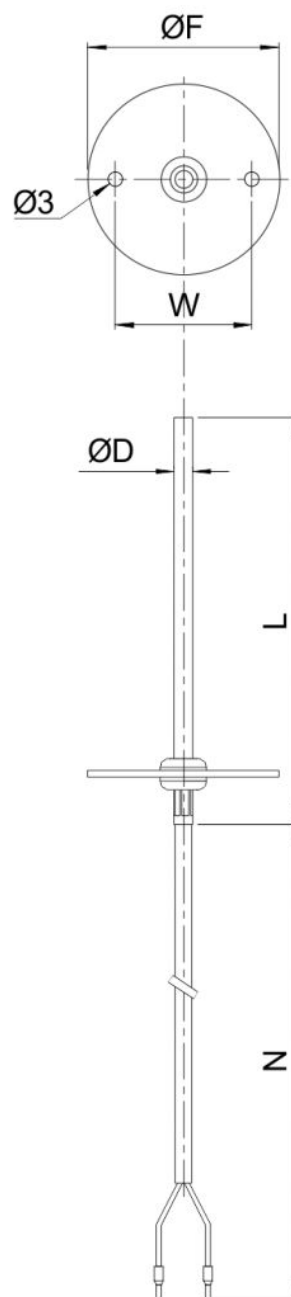


Features

- Pt1000, Ni1000 RTD or NTC thermistor
- -40...+105 °C operation
- Stainless steel or plastic protection tube
- Plastic flange with rubber grommet
- Two-wire PVC insulated cable

Specifications

Sensing element options	Pt1000 EN60751 class F0.15 or F0.3 Ni1000 DIN43760 or LG curve Customer specified NTC thermistor, Curves A, B, C, D, F or as specified R tolerance @ +25 °C P: ±1 % Q: ±2 % R: ±5 % β tolerance X: ±0,2 % Y: ±0,5 % Z: ±1,0 %
Protection tube	
Material	AISI 316L / EN1.4404 stainless steel
Diameter	5 mm
Length	30...250 mm
Protection class	IP67
Flange options	Thermoplastic polymer, Diameter ØF=40 mm or as specified, Two screw holes Ø4.5 mm or as specified, Hole distance W = 30 mm or as specified, Rubber or soft PVC grommet
Cable options	1: Flexible LiYYW 2×0,25 mm², 2: Rigid KLM 2×0,8 mm² Length N from 200 to 20 000 mm
Ordering example:	ET204-NTC10APX-L90-1N500



Resistance values of common NTC thermistors and RTDs, kOhm

Sensor element type	Curve	Temperature, °C							
		-40	-25	0	+25	+50	+75	+100	+125
NTC1,8 kOhm $\beta_{25/85}=3695$	C curve (E+E, S+S)	43	18	5,1	1,8	0,73	0,34	0,17	0,08
NTC1,8 kOhm $\beta_{25/85}=3435$	F curve (Produal, TAK, CSI)	36	16	4,9	1,8	0,75	0,35	0,18	-
NTC2,2 kOhm $\beta_{25/85}=3975$	A curve (Johnson)	76	29	7,4	2,25	0,81	0,33	0,15	0,08
NTC3 kOhm $\beta_{25/85}=3942$	B curve (Siemens)	97	39	9,9	3,0	1,08	0,44	0,21	0,11
NTC10 kOhm $\beta_{25/85}=3975$	A curve (Trend)	343	132	32,8	10,0	3,6	1,5	0,68	0,33
NTC10 kOhm $\beta_{25/85}=3695$	C curve (Andower)	241	104	29,6	10,0	3,9	1,7	0,82	0,44
NTC10 kOhm $\beta_{25/85}=3435$	F curve (Carel)	189	86	27,3	10,0	4,2	1,9	0,97	-
NTC20 kOhm $\beta_{25/85}=4262$	D curve (Honeywell)	785	294	69,4	20,0	6,8	2,6	1,1	0,54
NTC100 kOhm $\beta_{25/85}=4262$	D curve	4070	1510	350	100,0	34	13	5,6	2,6
Pt1000 $\alpha=3850$ ppm/K	EN 60751	0,843	0,902	1,000	1,097	1,194	1,290	1,385	1,479
Ni1000 $\alpha=5000$ ppm/K	LG (Siemens)	0,831	0,893	1,000	1,114	1,235	1,364	1,500	1,645
Ni1000 $\alpha=6178$ ppm/K	DIN 43760	0,791	0,919	1,000	1,141	1,291	1,450	1,618	1,796