



KF1/E

Duct temperature sensor with mounting flange

Measuring size: temperature

Output: passive sensor

Highlights: easy to install with included mounting flange



Description

The KF1/E duct sensor measures the temperature in the range of -30 up to +150°C in gasiform medium and is with all current sensors available. With the in scope of delivery mounting flange the temperature probe can be mounted directly e.g. on ducts or pipes and replaced quickly and easily in case of service.

Technical Specifications

Measurement range temp.	-30...+150°C
Sensor	Pt100, Pt500, Pt1000, Ni1000, KTY, NTC, LM235Z (other on request)
Circuit type	2-wire connection
Measurement current	approx. 1 mA
Electrical connection	screw terminals max. 1,5 mm ²
Leakage resistance	> 100 MOhm, at +20°C (500 V DC)
Housing	polyamide with snap closing screws, colour white like RAL 9010
Cable gland	PG11 high-strength cable gland with strain relief
Installation length	50-400 mm
Material	Protection sleeve: stainless steel VA 1.4571
Dimensions	Housing: L 64 x W 58 x H 34,5 mm, Protection sleeve: Ø 6 mm
Protection type	IP65
Storage temperature	-20...+70°C
Installation	mounting flange (in scope of delivery)
Approvals	CE, EAC, RoHS



Variants

Article Number	
Sensor	Installation length
KF1/E-02/100	
NTC12k ($\pm 1\%$)	100 mm
KF1/E-02/200	
NTC12k ($\pm 1\%$)	200 mm
KF1/E-10/050	
Pt100 (DIN EN 60751 Cl. B)	50 mm
KF1/E-10/100	
Pt100 (DIN EN 60751 Cl. B)	100 mm
KF1/E-10/150	
Pt100 (DIN EN 60751 Cl. B)	150 mm
KF1/E-10/200	
Pt100 (DIN EN 60751 Cl. B)	200 mm
KF1/E-10/250	
Pt100 (DIN EN 60751 Cl. B)	250 mm
KF1/E-10/300	
Pt100 (DIN EN 60751 Cl. B)	300 mm
KF1/E-10/350	
Pt100 (DIN EN 60751 Cl. B)	350 mm
KF1/E-10/400	
Pt100 (DIN EN 60751 Cl. B)	400 mm
KF1/E-20/050	
Pt1000 (DIN EN 60751 Cl. B)	50 mm
KF1/E-20/100	
Pt1000 (DIN EN 60751 Cl. B)	100 mm
KF1/E-20/150	
Pt1000 (DIN EN 60751 Cl. B)	150 mm
KF1/E-20/200	
Pt1000 (DIN EN 60751 Cl. B)	200 mm
KF1/E-20/250	
Pt1000 (DIN EN 60751 Cl. B)	250 mm
KF1/E-20/300	
Pt1000 (DIN EN 60751 Cl. B)	300 mm



Article Number	
Sensor	Installation length
KF1/E-20/350	
Pt1000 (DIN EN 60751 Cl. B)	350 mm
KF1/E-20/400	
Pt1000 (DIN EN 60751 Cl. B)	400 mm
KF1/E-30/050	
Ni1000 (whirl-sintered)	50 mm
KF1/E-30/100	
Ni1000 (whirl-sintered)	100 mm
KF1/E-30/150	
Ni1000 (whirl-sintered)	150 mm
KF1/E-30/200	
Ni1000 (whirl-sintered)	200 mm
KF1/E-30/250	
Ni1000 (whirl-sintered)	250 mm
KF1/E-30/300	
Ni1000 (whirl-sintered)	300 mm
KF1/E-30/350	
Ni1000 (whirl-sintered)	350 mm
KF1/E-30/400	
Ni1000 (whirl-sintered)	400 mm
KF1/E-37/100	
Ni1000TK5000 (thin film)	100 mm
KF1/E-37/200	
Ni1000TK5000 (thin film)	200 mm
KF1/E-40/050	
Ni1000TK5000 (whirl-sintered)	50 mm
KF1/E-40/100	
Ni1000TK5000 (whirl-sintered)	100 mm
KF1/E-40/150	
Ni1000TK5000 (whirl-sintered)	150 mm
KF1/E-40/200	
Ni1000TK5000 (whirl-sintered)	200 mm
KF1/E-40/250	
Ni1000TK5000 (whirl-sintered)	250 mm



Article Number	
Sensor	Installation length
KF1/E-40/300	
Ni1000TK5000 (whirl-sintered)	300 mm
KF1/E-40/350	
Ni1000TK5000 (whirl-sintered)	350 mm
KF1/E-40/400	
Ni1000TK5000 (whirl-sintered)	400 mm
KF1/E-50/100	
NTC1,8k (±1%)	100 mm
KF1/E-50/150	
NTC1,8k (±1%)	150 mm
KF1/E-50/200	
NTC1,8k (±1%)	200 mm
KF1/E-50/250	
NTC1,8k (±1%)	250 mm
KF1/E-50/300	
NTC1,8k (±1%)	300 mm
KF1/E-50/350	
NTC1,8k (±1%)	350 mm
KF1/E-50/400	
NTC1,8k (±1%)	400 mm
KF1/E-60/050	
LM235Z (±1%)	50 mm
KF1/E-60/100	
LM235Z (±1%)	100 mm
KF1/E-60/150	
LM235Z (±1%)	150 mm
KF1/E-60/200	
LM235Z (±1%)	200 mm
KF1/E-60/250	
LM235Z (±1%)	250 mm
KF1/E-60/300	
LM235Z (±1%)	300 mm
KF1/E-60/350	
LM235Z (±1%)	350 mm



Article Number	
Sensor	Installation length
KF1/E-60/400	
LM235Z ($\pm 1\%$)	400 mm
KF1/E-70/050	
NTC20k ($\pm 1\%$)	50 mm
KF1/E-70/100	
NTC20k ($\pm 1\%$)	100 mm
KF1/E-70/150	
NTC20k ($\pm 1\%$)	150 mm
KF1/E-70/200	
NTC20k ($\pm 1\%$)	200 mm
KF1/E-70/250	
NTC20k ($\pm 1\%$)	250 mm
KF1/E-70/300	
NTC20k ($\pm 1\%$)	300 mm
KF1/E-70/350	
NTC20k ($\pm 1\%$)	350 mm
KF1/E-70/400	
NTC20k ($\pm 1\%$)	400 mm
KF1/E-80/050	
NTC10k ($\pm 1\%$)	50 mm
KF1/E-80/100	
NTC10k ($\pm 1\%$)	100 mm
KF1/E-80/150	
NTC10k ($\pm 1\%$)	150 mm
KF1/E-80/200	
NTC10k ($\pm 1\%$)	200 mm
KF1/E-80/250	
NTC10k ($\pm 1\%$)	250 mm
KF1/E-80/300	
NTC10k ($\pm 1\%$)	300 mm
KF1/E-80/350	
NTC10k ($\pm 1\%$)	350 mm
KF1/E-80/400	
NTC10k ($\pm 1\%$)	400 mm



Article Number	
Sensor	Installation length
KF1/E-83/200	
KTY 81-210 (KTY 10-6) ($\pm 1\%$)	200 mm

Accessories



DT/G
Digital display



HR/G
Digital controller for DIN rail with change-over contact



ZT/E
Immersion sleeve



MUD/E
Pt100 temperature transformer 0-10 V / 4-20 mA with double-PG housing



Dimensional Drawing

