

## Industrial built-in duct sensor IKF1 (design B)

with passive output



Technical data		Application
<b>Measuring range:</b>	-30 ... +150°C (LM 235 Z max. 125°C)	For the measuring of temperatures in liquids and gases that flow in pipes, conduits, air ducts, reservoirs, tanks or containers used in the machine-, apparatus and plant engineering sphere. If provided for the application in air ducts, the use of a special installation flange is required. If provided for use in liquids, nickel-plated dip sleeves need to be applied. In aggressive media, the use of dip sleeves of stainless steel (V4A) is recommended. Dip sleeves or installation flanges are not included in the scope of the delivery and <b>need to be ordered separately</b> as an accessory.
<b>Sensor:</b>	see table	
<b>Tolerance classes:</b>	PT100/PT1000      DIN EN 60751 B NI1000              DIN EN 43760 B	
<b>Measurement current:</b>	max. 3 mA	
<b>Electrical connections:</b>	2-wire, 0.14 up to 2.5 mm <sup>2</sup>	
<b>Dimensioned drawing:</b>	aluminium, form B	
<b>Degree of protection:</b>	IP 43	
<b>Sensor tube:</b>	V2A 1.4301 / 6 mm Ø regarding length, see table	
<b>Dip sleeves:</b>	nickel-plated brass or V4A overview / lengths, see page 157	
<b>Installation flange:</b>	page 157	
<b>Sensor characteristics:</b>	page 162 –163	
<b>Ambient temperature (housing):</b>	max. +100°C	

Sensor	Installation length 65 mm (for 50 mm dip sleeves)	Installation length 115 mm (for 100 mm dip sleeves)	Installation length 165 mm (for 150 mm dip sleeves)	PG
<b>PT 100</b>	Type: IKF1P 100/50 Item No.: G9150010	Type: IKF1P 100/100 Item No.: G9150140	Type: IKF1P 100/150 Item No.: G9150270	S
<b>PT 1000</b>	Type: IKF1P 1000/50 Item No.: G9150020	Type: IKF1P 1000/100 Item No.: G9150150	Type: IKF1P 1000/150 Item No.: G9150280	S
<b>NI 1000</b>	Type: IKF1N 1000/50 Item No.: G9150030	Type: IKF1N 1000/100 Item No.: G9150160	Type: IKF1N 1000/150 Item No.: G9150290	S
<b>NI 1000 TK 5000</b>	Type: IKF1N 1000 TK 5000/50 Item No.: G9150040	Type: IKF1N 1000 TK 5000/100 Item No.: G9150170	Type: IKF1N 1000 TK 5000/150 Item No.: G9150300	S
<b>NTC 1 K 8</b>	Type: IKF1C 18/50 Item No.: G9150050	Type: IKF1C 18/100 Item No.: G9150180	Type: IKF1C 18/150 Item No.: G9150310	S
<b>NTC 3 K</b>	Type: IKF1C 03/50 Item No.: G9150060	Type: IKF1C 03/100 Item No.: G9150190	Type: IKF1C 03/150 Item No.: G9150320	S
<b>NTC 10 K</b>	Type: IKF1C 10/50 Item No.: G9150070	Type: IKF1C 10/100 Item No.: G9150200	Type: IKF1C 10/150 Item No.: G9150330	S
<b>NTC 10 K Prekon</b>	Type: IKF1C 10 PRE/50 Item No.: G9150080	Type: IKF1C 10 PRE/100 Item No.: G9150210	Type: IKF1C 10 PRE/150 Item No.: G9150340	S
<b>NTC 20 K</b>	Type: IKF1C 20/50 Item No.: G9150090	Type: IKF1C 20/100 Item No.: G9150220	Type: IKF1C 20/150 Item No.: G9150350	S
<b>NTC 30 K</b>	Type: IKF1C 30/50 Item No.: G9150100	Type: IKF1C 30/100 Item No.: G9150230	Type: IKF1C 30/150 Item No.: G9150360	S
<b>NTC 50 K</b>	Type: IKF1C 50/50 Item No.: G9150110	Type: IKF1C 50/100 Item No.: G9150240	Type: IKF1C 50/150 Item No.: G9150370	S
<b>KTY 11/6</b>	Type: IKF1Y 11/6/50 Item No.: G9150120	Type: IKF1Y 11/6/100 Item No.: G9150250	Type: IKF1Y 11/6/150 Item No.: G9150380	S
<b>LM 235 Z</b>	Type: IKF1LM/50 Item No.: G9150130	Type: IKF1LM/100 Item No.: G9150260	Type: IKF1LM/150 Item No.: G9150390	S