

FROST GUARD SENSOR TEKV NTC 10-KB

TEKV NTC 10-KB temperature sensor is designed for automatic HVAC systems to detect heating coil temperatures (= return water).

Temperature is detected by a NTC sensor element with a nominal resistance of 5025 Ω at 25 °C.

Housing is made of heat-resistant plastic. The cover and the terminal blocks are tilted 45° to provide easy installation. Sensor is installed to the coil by using a joint with R1/4" thread. Mounting depth can be adjusted up to 200 mm.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	467	25	5025
100	723	20	5573
90	923	15	6126
80	1194	10	6667
75	1364	5	7183
70	1562	0	7661
65	1791	-5	8093
60	2056	-10	8472
55	2358	-15	8796
50	2702	-20	9067
45	3088	-25	9288
40	3517	-30	9466
35	3987	-40	9712
30	4492	-50	9854



Technical data:

sensor	NTC 10-KB element
mounting	R 1/4" thread
stem	Ø 4 mm x 200 mm
cable entry	M16
range	-50...+120 °C
accuracy	±0.5 °C (at 25 °C)
time constant	about 2.5 s
pressure rating	PN16
protection class	IP54, cable entry or stem down

Ordering guide:

Model	Product number	Description
TEKV NTC 10-KB	117B120	frost guard sensor 5025 Ω / 25 °C

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).