

## FROST GUARD SENSOR TEKV NTC 1.8

TEKV NTC 1.8 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 1.8 k $\Omega$  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	$\Omega$	°C	$\Omega$
120	110	25	1800
100	178	20	2177
90	230	15	2649
80	303	10	3241
75	349	5	3989
70	403	0	4940
65	468	-5	6159
60	545	-10	7730
55	638	-15	9771
50	750	-20	12 443
45	885	-25	15 969
40	1049	-30	20 659
35	1250	-40	35 480
30	1496	-50	63 229



### Technical data:

sensor	NTC 1.8 element, 1.8 k $\Omega$ at 25 °C
mounting	R 1/4" thread
stem	4 mm x 200 mm
housing	plastic (< 120 °C)
protection class	IP54, stem or cable gland downwards
cable entry	M16
range	-50...+120 °C
accuracy	±0.3 °C (at 25 °C)
time constant	2.5 s
pressure rating	PN16
material	PBT, PC, PA, acid proof steel

### Ordering guide:

Model	Product number	Description
TEKV NTC 1.8	117E120	frost guard sensor 1.8 k $\Omega$ at 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).