RF3/R

Room Temperature Sensor with Potentiometer and Rotary Switch

Measuring size: temperature

Output: passive sensor

Highlights: with potentiometer and rotary switch

MADE IN GERMANY   EAC   CE   RoHS COMPLIANT

Description

Room temperature sensor of the series RF3/R is the ideal and cost-efficient solution for inner room uses in the HVAC applications. The simple functional housing enables a simple installation. The temperature signal is available as passive output. The lower parts will be screwed directly at the wall with a help of 2 fixing screw (not in scope of delivery) or of an adapter frames. By the installation pay attention that the ventilation slit stands vertically to the wall. An exact temperature measurement can be guaranteed by the good air circulation.

Technical Specifications

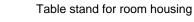|	
Measurement range temp.	-30...+60°C
Sensor	Pt100, Pt500, Pt1000, Ni1000, KTY, NTC, LM235Z (other on request)
Circuit type	2-wire connection
Measurement current	approx. 1 mA
Electrical connection	screw terminals max. 1,5 mm²
Leakage resistance	> 100 MOhm, at +20°C (500 V DC)
Housing	ABS polyman, colour signal white like RAL 9003
Cable gland	on the back or housing side (predetermined breaking point)
Equipment	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
Dimensions	Housing: L 82 x W 82 x H 25 mm
Protection type	IP30
Protection class	III
Storage temperature	-20...+70°C
Installation	on-wall or on flush-mounted box
Approvals	CE, EAC, RoHS
Notice	On-wall temperature probes are customized products and non-returnable.

Variants

Article Number	
Sensor	Equipment
RF3/R-10	
Pt100 (DIN EN 60751 Cl. B)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-20	
Pt1000 (DIN EN 60751 Cl. B)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-30	
Ni1000 (whirl-sintered)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-40	
Ni1000TK5000 (whirl-sintered)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-50	
NTC1,8k (±1%)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-60	
LM235Z (±1%)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-70	
NTC20k (±1%)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)
RF3/R-80	
NTC10k (±1%)	1 kOhm Poti (±5%), 4-ranks rotary switch (24 V DC)

Accessories

FS9510

Table stand for room housing

Dimensional Drawing