

**15. Sensors**  
**15.7.1-GB Temperature sensors in various constructions**  
 (Contact-, room-, immersion-, living room- and air duct sensor)

Type:

**TFA, -R, -T, -W, -K**

**Function**

Silicon temperature sensor PTC (KTY81-210) in various constructions (contact-, room-, immersion-, living room and air duct sensor) with integrated overvoltage protection for controlling e.g. fans in conjunction with Ziehl-Abegg temperature controllers.

$R_{25} = 2,0 \text{ k}\Omega$  (Tolerance 1%)

**Versions / Technical data**



**TFA**  
00153407



**TFR**  
00089846



**TFT**  
00154797



**TFW**  
00154798



**TFK**  
384 022

**TFA:** Contact sensor (IP67) e.g. for pipelines, lead length (LIYY, 2 x 0,25 mm<sup>2</sup>) approx. 2 m  
 Sleeve dimensions made of stainless steel (Øxlenght) 6x50 mm  
 Permissible temperature range -20° C to +85° C

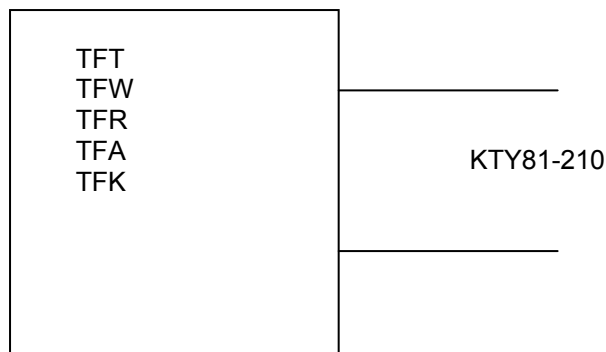
**TFR:** Room sensor (IP54) in junction boxes, dimensions (BxHxD) 75x75x37 mm  
 Permissible temperature range -20° C to +60° C

**TFT:** Immersion sensor (IP43) for installation in immersion sleeve in building, lead length (HO3VV-F, 2 x 0,5 mm<sup>2</sup>) approx. 1.9 m  
 Sleeve dimensions made of brass (Øxlenght) 7x50 mm  
 Permissible temperature range -20° C to +105° C

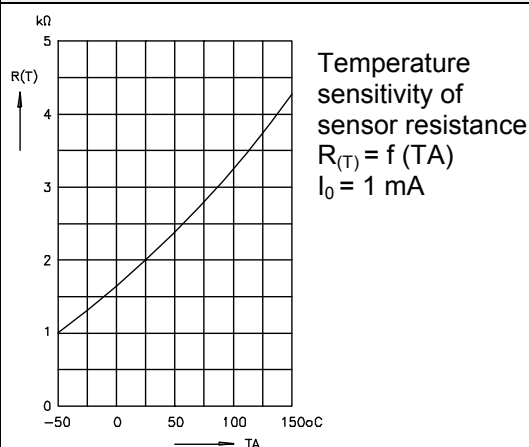
**TFW:** Living room sensor (IP20) for dry rooms, dimensions (BxHxD) 84x84x23.5 mm  
 Permissible temperature range -35° C to +70° C

**TFK:** Air duct sensor (IP65) in casing  
 Sensor casing dimensions (BxHxD) 50x65x44 mm, material polyamide, colour white, cable inlet M16  
 Sleeve dimensions (Øxlenght) 7x135 mm, material stainless steel 1.4571  
 Permissible temperature range -50° C to +120° C

**Connection diagram**



**Resistance characteristic curve**



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**ZIEHL-ABEGG**



Subject to technical modifications