THERMASGARD® DTF

In-ceiling temperature sensors with passive output

S+S REGELTECHNIK

THERMASGARD® **DTF** is a small in-ceiling resistance thermometer with passive output for in-wall installation, e.g. in plasterboard walls or suspended ceilings. The in-ceiling temperature sensor DTF is preferably installed in ceilings and walls, blends in seamlessly with the overall architectural design and detects the temperature at the surface.
The connecting head is pluggable for quick, easy mounting.

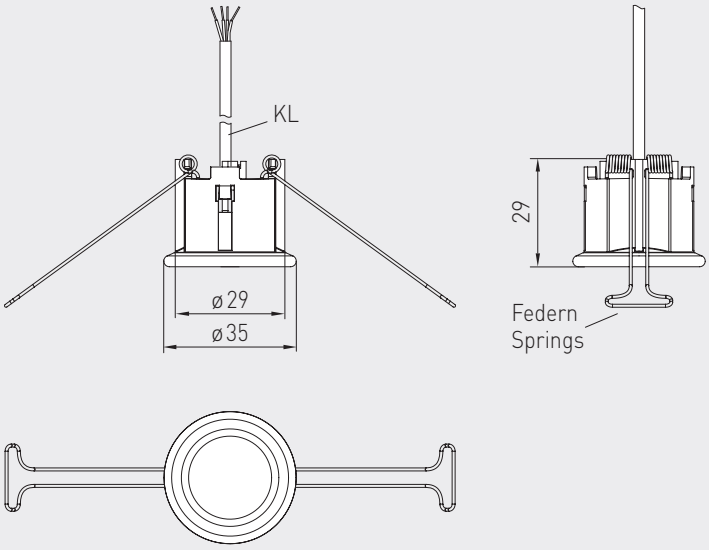
DTF
Connecting head, pluggable



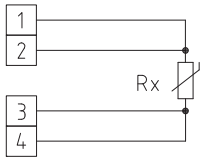
TECHNICAL DATA

Measuring range:	–20...+90 °C
Sensors / output:	see table, passive
Connection type:	4-wire connection **terminal 1 / 2: +** (marked red, wire colours: yellow, brown) **terminal 3 / 4: –** (marked black, wire colours: white, green)
Testing current:	< 0.6 mA (Pt1000) < 1.0 mA (Pt100) < 0.3 mA (Ni1000, Ni1000 TK5000) < 2.0 mW (NTC xx) 400 µA...5 mA (LM235Z)
Connecting head:	plastic, material polycarbonate (PC), colour white (can be painted as an option), **pluggable**
Connecting cable:	PVC, LiYY, 4 x 0.14 mm², KL = approx. 2 m
Process connection:	inside suspended ceiling, ceiling cutout Ø = 30 mm, cover Ø = < 35 mm
Insulating resistance:	≥ 100 MΩ, at +20 °C (500V DC)
Humidity:	< 95 % RH, non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	**IP 30** (according EN 60 529) Sensor in the built-in state

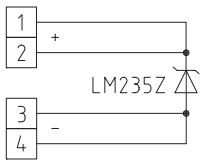
Dimensional drawing **DTF**



1x four-wire connection
standard



1x four-wire connection
LM 235 Z (KP 10)



DTF



THERMASGARD® DTF	In-ceiling temperature sensors		
Type / WG03	**Sensor / Output**	**Item No.**	**Price**
DTF		**IP 30**	
DTF Pt100	Pt100 (according to DIN EN 60 751, class B)	1101-60C0-1003-000	**41,96 €**
DTF Pt1000	Pt1000 (according to DIN EN 60 751, class B)	1101-60C0-5003-000	**41,96 €**
DTF Ni1000	Ni1000 (according to DIN EN 43 760, class B, TCR = 6180 ppm / K)	1101-60C0-9003-000	**41,69 €**
DTF NiTK	Ni1000 TK5000 (TCR = 5000 ppm / K), LG-Ni1000	1101-60C1-0003-000	**45,78 €**
DTF LM235Z	LM235Z (TCR = 10 mV / K; 2.73 V at 0 °C), KP10	1101-60C2-1003-000	**42,94 €**
DTF NTC1,8K	NTC 1.8 K	1101-60C1-2003-000	**42,94 €**
DTF NTC10K	NTC 10K	1101-60C1-5003-000	**42,94 €**
DTF NTC20K	NTC 20K	1101-60C1-6003-000	**42,94 €**
Note:	Other sensors optional	on request	