### **Temperature Sensor/Switch for Easy On/Off Control**

8400



This Sensor/Switch is specially designed to switch a valve and establish an on/off control loop. The switching point can be programmed with the 3 key pads on the display or can optionally be programmed externally from a programmable logic controller over a 4...20 mA loop. The connection to the process in the piping is done with standard fittings.

### **Process Specification**

Pipe diameter

Measuring range

Switching accuracy

Repeatability Fitting Housing material Front panel foil Sensor element Wetted parts

### **Electrical Specification**

Voltage Supply Reversed polarity of DC Transistor output

or Relay output

Input external Setpoint AS-Interface Current consumption Short circuit protection Recommended max. cable length For voltage supply

### **Electrical Connections**

FaseOn Cable plug Multipin ASI connection

#### **Environment Specifications**

Fluid temperature max. Ambient temperature range Fluid pressure max. Type of protection

Standards EMI

any pipe with sensor connection (see fitting ordering chart) -40°C...+125°C (with ambient temperature 0...40°C) -40°C...+90°C (with ambient temperature above 40°C) ±0.5°C (0...80°C) ±1.5°C (outside of 0...80°C) 0.4% See ordering chart fitting PC+20% grass fibre Polyester Pt100 stainless steel, FPM standard (EPDM option)

12...30 VDC protected NPN and PNP, open collector 5...30 VDC, 700 mA 3 A/250 VAC or 3 A/30 VDC; programmable 4...20 mA Field bus max. 80 mA (no Load) ves

100 m shielded, section 0.14...0.5 mm<sup>2</sup>

on request cable plug 2511 DIN 43650A 5 pin, M12 on request

+125°C 0...+60°C PN 16 IP 65 with connector plugged in

EN 50081-1, 50082-2, 61010-2

### Sensor Connection

- ON/OFF Control System for Switching Applications
- Programmable ON/OFF Control System for easy Fluid Control **Systems**
- Complete Communication thanks to external Setpoint Link or AS-Interface



(compact inline control)



Chemical restrictions (see manual) bürkert

# Temperature Sensor/Switch for Easy On/Off Control

8400 Sensor/Switch for sensor connection G1/2, NPT1/2, RC1/2 Ordering Chart							
Voltage supply	Input	Output	Connector	Item-No.			
				G <sup>1</sup> / <sub>2</sub>		RC <sup>1</sup> / <sub>2</sub>	
12-30 VDC		NPN	cable plug 2508 (DIN 43 650)	434 872 P	434 877 L	427 448 X	
12-30 VDC		PNP	cable plug 2508 (DIN 43 650)	434 876 K	434 878 V	427 449 Y	
12-30 VDC		NPN and PNP	M12 plug 5 pin	436 501 N	436 507 L	436 504 R	
12-30 VDC		Relay	M12 plug, 5 pin and DIN plug	436 503 Q	436 509 N	436 506 K	
12-30 VDC	420 mA ext. set point	Relay	Multipin plug and cable plug 2508 (DIN 43 650)	on request	on request	on request	

Accessory for ON/OFF Temperature Control System 8400	Ordering Chart
M12 female cable connector with plastic threaded locking ring	917 116 D
5 pin M12 female connector moulded on cable (2 m., shielded)	438 680 F
	Has to be ordered separatly

### Fittings

S005 INLINE fittings with adapter plate for 8400	
S001 fitting brass, stainless steel for 8400	

Has to be ordered separatly

### Dimensions [mm] / [inch]



### Electrical connection - Transistor version (NPN/PNP)



## In case of special application requirements, please consult for advice.

### Electrical connection - Relay version



We reserve the right to make technical changes without notice. 910-GB/ 1-0200