"All–In–One" Temperature Sensor/Switch For Easy ON/OFF Control

Type 8400

Sensor Connection



This Sensor/Switch is specially designed to switch a valve, pump, heaters, etc... and establish an ON/OFF control loop. The switching point can be programmed with the 3 key pads on the display or externally from a programmable logic controller via a 4-20 mA loop. Additionally, the process value can be transmitted to the PLC (4-20 mA). 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 Output process value AS-Interface Current consumption Short circuit protection Recommended max. cable length for voltage supply

Electrical Connections

EaseOn Cable plug Multipin ASI connection

Environment Specifications

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

Standards

EMI Vibration Shock

Chemical restrictions (see manual)

any pipe with $1/2^{\circ}$ FNPT (see fitting ordering chart) -40°F to 257°F (with ambient temperature 32°F to 104°F) 104°F to 194°F (with ambient temperature above 104°F) $\pm 1.0^{\circ}$ F (32° to 176°F) $\pm 3.0^{\circ}$ F (outside of 32° to 176°F) 0.4% See ordering chart fitting PC+20% glass fiber Polyester Pt100 stainless steel

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 Fieldbus max. 80 mA (no Load) yes 328 ft. shielded, (18 AWG) section 0.14-0.5 mm²

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

256°F 32° to 140°F 230 PSI NEMA 4 (IP65) with connector plugged in

EN 50081-1, 50082-2, 61010-2 EN 68-2-6 EN 68-2-27

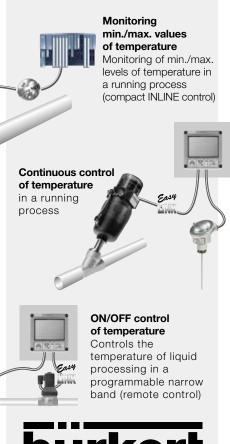
Advantages/Benefits

- ALL IN ONE: Indication, Contoller, Transmitter, ON/OFF Relay and AS-i Control in One Device
- Programmable Monitoring and ON/OFF Control System for Easy Fluid Control Systems
- Complete Communication due to External Setpoint, Easy LINK or AS-Interface



► (€ Approval

Applications



burkert Fluid Control Systems

burkert

"All-In-One" Temperature Sensor/Switch For Easy ON/OFF Control

8400 Sensor/Switch for sensor connection NPT1/2

Input	Output	Item-No.*
	NPN	US08579
	PNP	US08578
	NPN and PNP	US08577

US08576 12-30 VDC Relay 4–20 mA 1) US08575 12-30 VDC Relay AS-i AS-i + Relay US08574 12-30 VDC 4-20 mA 1) 4-20 mA 2) + Relay US08573 1) Ext. set point 2) Process value *Cables and plugs included with part number

Accessory for ON/OFF Temperature Control System 8400

Ordering Chart

Ordering Chart

M12 female cable connector with plastic threaded locking ring	917 116 D
5 pin M12 female connector molded on cable (2 m, shielded)	438 680 F
8 pin M12 female cable connector with plastic threaded locking ring	444 799 G
8 pin M12 female connector molded on cable (2 m)	444 800 E
2 pin M12 female coupler module for ribbon cable (AS-Interface version only)	440 653 M
S005 INLINE fittings with adapter plate for 8400	see datasheet Type S005
S001 fitting brass, stainless steel for 8400	see datasheet Type S001

Has to be ordered separately

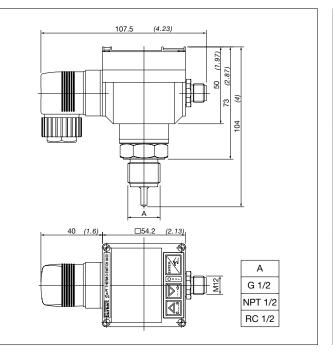
Type 8400

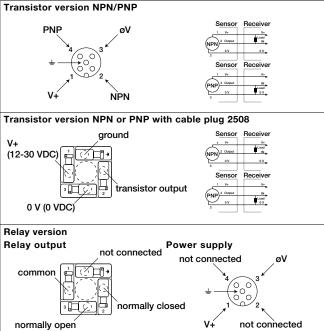


Voltage supply 12-30 VDC 12-30 VDC 12-30 VDC

AS-i Bus

Electrical Connections





Burkert Contromatic USA

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In case of special requirements please consult for advice.

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> We reserve the right to make technical changes without notice.

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