

Paddle-Wheel Flow Sensor/Switch for Easy ON/OFF Control



Picture showing Type SE32 with Fitting S030

SE32

INLINE Quarter-Turn

- ✓ **ALL IN ONE:**
Indication, Monitoring, Transmitting and ON/OFF 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**



Flow - ON/OFF Control

SE32

This intelligent paddle-wheel flow sensor/switch with an extra-large display is specially designed to switch a valve and to establish a monitoring system or an ON/OFF control loop. The switching points can be programmed with the 3 key pads on the display or optionally from an external PLC over 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 the „easy to connect“ quarter-turn technique of the INLINE fittings.

Process Specification

Pipe diameter	DN 15...DN 50 (DN 8 on request)
Measuring range	0.3 m/s...10 m/s
Switching accuracy	±1% fs.
Repeatability	0.4%
Fitting	Burkert INLINE fitting S030
Housing material	PC +20% glass fibre
Front panel foil	Polyester
Sensor element	Paddle-wheel
Wetted parts	PVDF, ceramic, FPM standard (EPDM option)

Electrical Specification

Voltage supply	12...30 VDC
Reversed polarity of DC	protected
Transistor output (programmable)	NPN and PNP, open collector
	5...30 VDC, 700 mA

or
Relay output (programmable)

Input external Setpoint	3 A/230 VAC or 3 A/30 VDC
Output process value	3 A/48 VAC or 3 A/30 VDC ¹⁾
AS-Interface	4...20 mA
Current consumption	4...20 mA
Short circuit protection	Fieldbus
Recommended max. cable length	Max. 80 mA (no Load)
For voltage supply	Yes
	100 m shielded,
	Cross section 0.14...0.5 mm ²

Electrical Connections

EaseOn	On request cable plug 2511
Cable plug	2508, DIN 43650A
Multipin	5 pin, M12

Environment Specifications

Fluid temperature max.	100°C
Ambient temperature range	0...+60°C
Fluid pressure max.	PN 16
Protection class	IP 65 with connector plugged in
Chemical restrictions	(see manual SE32)

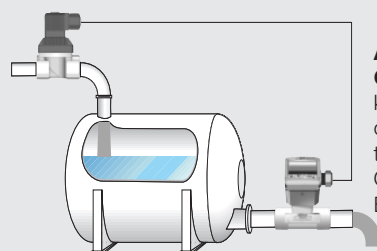
Standards

EMC	EN 50081-1, 50082-2, 61010-2
Vibration	EN 68-2-6
Shock	EN 68-2-27

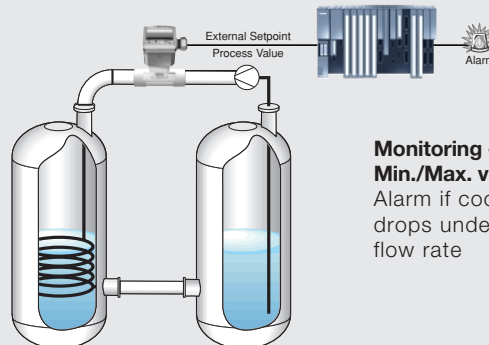
¹⁾ Valid for: Input external setpoint, Output process value and AS-Interface
115/230 VAC on request



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Application - ON/OFF Control
keeps the flow rate constant in water treatment with ON/OFF control and EasyLINK



Monitoring - Min./Max. values
Alarm if cooling system drops under a certain flow rate

Paddle-wheel Flow Sensor/Switch for Easy ON/OFF Control

SE32 Display and Electronic for INLINE fitting S030

Ordering Chart

Voltage supply	Input	Output	Connector	Item-No. (Standard)	Item-No. (NAFTA)
12-30 VDC	---	NPN	Cable plug 2508*	436 474 J	438 763 D
12-30 VDC	---	PNP	Cable plug 2508*	434 871 N	438 687 S
12-30 VDC	---	NPN and PNP	M12 plug 5 pin	436 473 R	—
12-30 VDC	---	Relay	M12 plug 5 pin and cable plug 2508*	436 475 K	438 764 E
12-30 VDC	4...20 mA ¹⁾	Relay	M12 plug 5 pin and cable plug 2508*	440 500 R	440 725 D
ASi Bus	ASi	ASi + Relay	M12 plug 5 pin and cable plug 2508*	440 501 E	440 724 C
12-30 VDC	4...20 mA ¹⁾	4...20 mA ²⁾ + Relay	M12 plug 8 pin and cable plug 2508*	444 699 C	444 700 R

¹⁾ Ext. set point

²⁾ Process value

Type 2508*
Type 2508*

Europe / Asia (G / Rc): PG9 connection on cable plug
USA / CDN (NPT): G 1/2 connection on cable plug

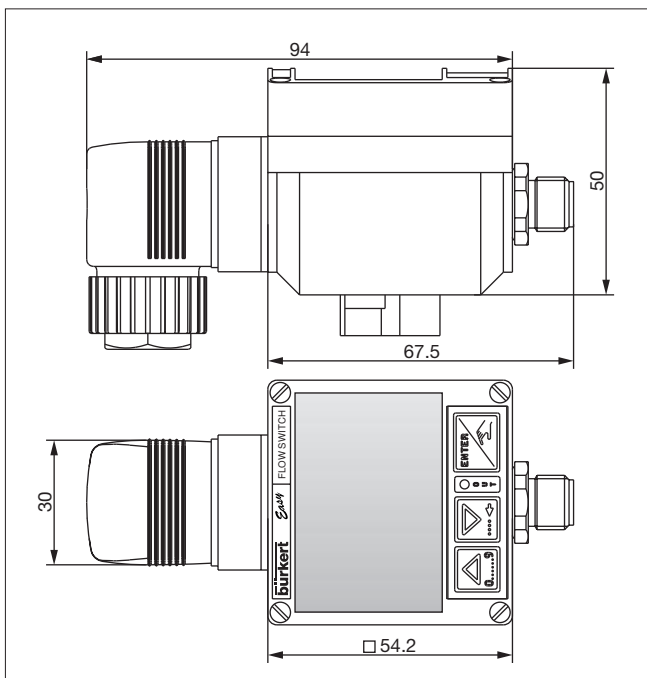
Accessory for ON/OFF Flow Control System SE32

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
8 pin M12 female cable connector with plastic threaded locking ring	444 799 G
8 pin M12 female connector moulded on cable (2 m.)	444 800 E
2 pin M12 female coupler module for ribbon cable (AS-Interface version only)	440 653 M
S030 INLINE fittings	see data sheet type S030

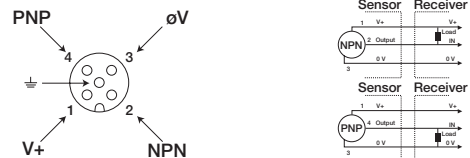
Has to be ordered separately

Dimensions [mm]

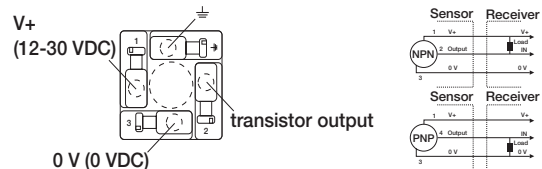


Electrical Connections

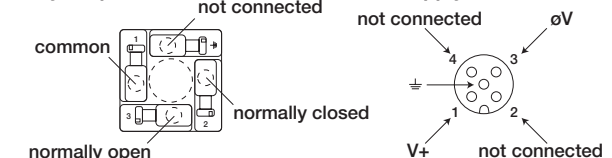
Transistor version NPN/PNP



Transistor version NPN or PNP with cable plug 2508



Relay version



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