

Paddle-Wheel Flow Sensor/Switch for Easy On/Off Control

8032

STAINLESS STEEL, INLINE Quarter-Turn



- ✓ **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**



This paddle-wheel Flow 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 the „easy to connect“ quarter-turn technique of the INLINE fittings.

Process Specification

Pipe diameter	DN 15...DN 50
Measuring range	0.2 m/s...10 m/s
Switching accuracy	±1% fs.
Repeatability	0.4%
Fitting	Bürkert INLINE fitting S030
Housing material	PC+20% glass fibre
Front panel foil	Polyester
Sensor element	paddle wheel
Wetted parts	PVDF, ceramic, EPM standard (EPDM option)

Electrical Specification

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

or
Relay output

Input external Setpoint	3 A/250 VAC or 3A/30 VDC; programmable
AS-Interface	4...20 mA
Current consumption	Field bus
Short circuit protection	max. 80 mA (no Load)
Recommended max. cable length	yes
For voltage supply	100 m shielded, section 0.14...0.5 mm ²

Electrical Connections

EaseOn	on request cable plug 2511
Cable plug	2508, DIN 43650A
Multipin	5 pin, M12
ASi connection	on request

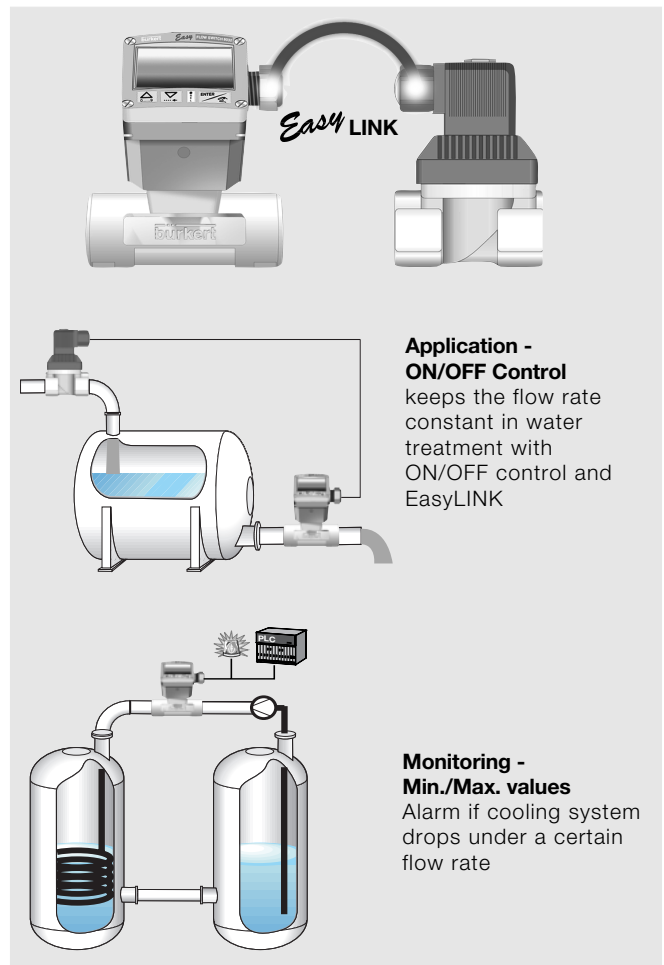
Environment Specifications

Fluid temperature max.	100°C
Ambient temperature range	0...+60°C
Fluid pressure max.	PN 16
Type of protection	IP 65 with connector plugged in

Standards

EMI	EN 50081-1, 50082-2, 61010-2
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Chemical restrictions (see manual SE 32)



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SE32 Display and Electronic for INLINE fitting S030

Ordering Chart

Voltage supply	Input	Output	Connector	Item-No.
12-30 VDC	---	NPN	Cable plug 2508 (DIN 43 650)	436 474 J
12-30 VDC	---	PNP	Cable plug 2508 (DIN 43 650)	434 871 N
12-30 VDC	---	NPN and PNP	M12 plug, 5 pin	436 473 R
12-30 VDC	---	Relay	M12 plug and cable plug 2508 (DIN 43 650)	436 475 K
12-30 VDC	4...20 mA ext. set point	Relay	M12 and cable plug 2508 (DIN 43 650)	on request

Accessory for ON/OFF Flow Control System 8032

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 separately

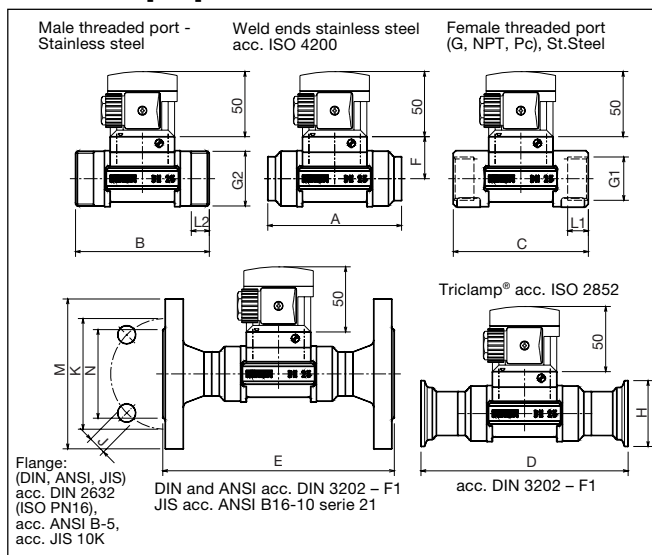
Fittings S030 - Ordering Chart - STAINLESS STEEL, INLINE Quarter-Turn

Specification	Item-No.					
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
G-port connection (internal thread)	424 004 K	424 005 L	424 006 M	424 007 N	424 008 X	424 009 Y
JIS (ISO 7)-port connection (internal thread)	424 016 E	424 017 F	424 018 Q	424 019 R	424 020 N	424 021 B
NPT-port connection (internal thread)	424 010 L	424 011 H	424 012 A	424 013 B	424 014 C	424 015 D
G-port connection (external thread)	424 022 C	424 023 D	424 024 E	424 025 F	424 026 G ¹⁾	424 027 H ¹⁾
Weld-end port connection	424 028 J	424 029 K	424 030 Q	424 031 D	424 032 E	424 033 F
Flange-port connection (DIN 3202-F1, DIN 2501/2633, ISO 5752-1)	424 040 S	424 041 P	424 042 Q	424 043 R	424 044 J	424 045 K
Flange-port connection (ANSI B16-5-1988)	424 046 L	424 047 M	424 048 W	424 049 X	424 050 U	424 051 R
TriClamp®-port connection (ISO 2852)	424 034 G	424 035 H	424 036 A	424 037 B	424 038 L	424 039 M

¹⁾Metric thread

Has to be ordered separately

Dimensions [mm]

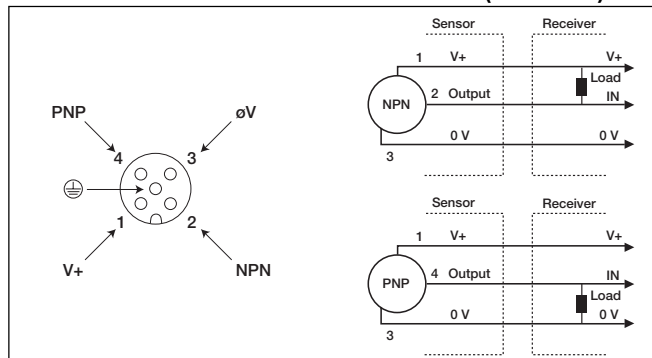


Variable dimensions [mm]

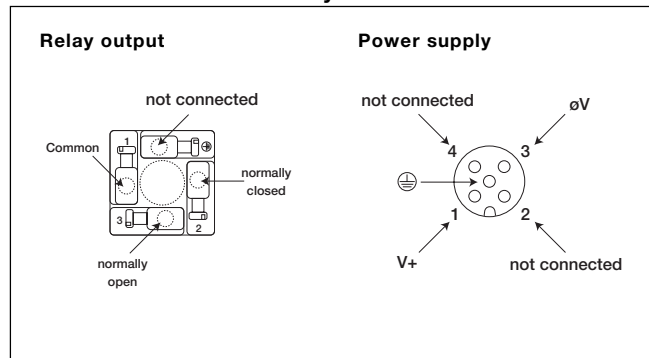
Stainless steel

DN			E																			
	outer ø	thickness	A	B	C	D	DIN ANSI	JIS	F	G1	L1	G2	L2	H	Norm	J	K	M	N			
15	21,3	1,6	84	84	85	130	130	152	34,5	G1/2 NPT1/2 Rc1/2	16 17 15				DIN ANSI JIS	4x14 4x15,8 4x15	65 60,3 70	95 89 95	45 34,9 51			
20	26,9	1,6	94	94	95	150	150	178	32	G1/2 NPT1/2 Rc1/2	17 18,3 16,3		G1	13,5	50,5	DIN ANSI JIS	4x14 4x15,8 4x15	75 69,8 75	105 99 100	58 42,9 56		
25	33,7	2	104	104	105	160	160	216	32,2	G1 NPT1 Rc1 G1-1/2	23,5 18 18 23,5		G1-1/2	14	50,5	DIN ANSI JIS	4x14 4x15,8 4x19	85 79,4 90	115 108 125	68 50,8 67		
32	42,4	2	119	119	120	180	180	229	35,8	G1-1/2 NPT1-1/2 Rc1-1/2	21 21 21		G1-1/2	18	50,5	DIN ANSI JIS	4x14 4x15,8 4x19	100 88,9 100	140 117 135	78 63,5 76		
40	48,3	2	129	129	130	200	200	241	39,6	G1-1/2 NPT1-1/2 Rc1-1/2	23,5 20 19		M55x2	19	64	DIN ANSI JIS	4x18 4x15,8 4x19	110 98,4 105	150 127 140	88 73 81		
50	60,3	2,6	149	149	150	230	230	267	45,7	G2 NPT2 Rc2	27,5 24 24		M64x2	20	77,5	DIN ANSI JIS	4x18 4x19 4x19	125 120,6 120	165 152 155	102 92,1 96		

Electrical connection - Transistor version (NPN/PNP)



Electrical connection - Relay version



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

We reserve the right to make technical changes without notice.
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