

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



8032

PLASTIC, 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, FPM 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 3 A/30 VDC;
AS-Interface	programmable
Current consumption	4...20 mA
Short circuit protection	Field bus
Recommended max. cable length	max. 80 mA (no Load)
For voltage supply	yes
	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

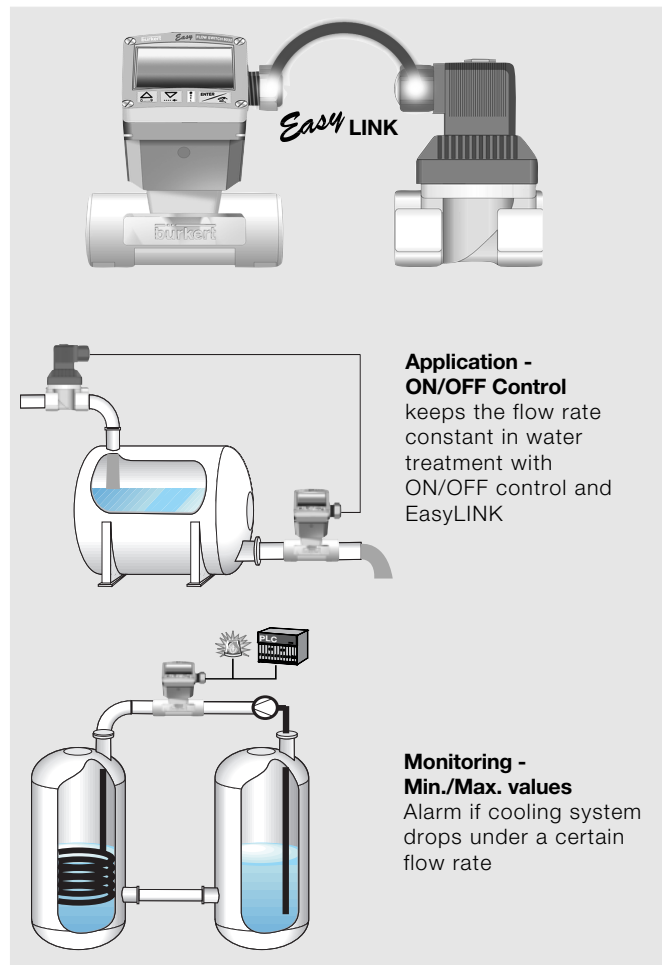
Environment Specifications

Fluid temperature max.	+50...+100°C (depends on used fitting and pressure)
Ambient temperature range	0...+60°C
Fluid pressure max.	PN 10
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)



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.
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

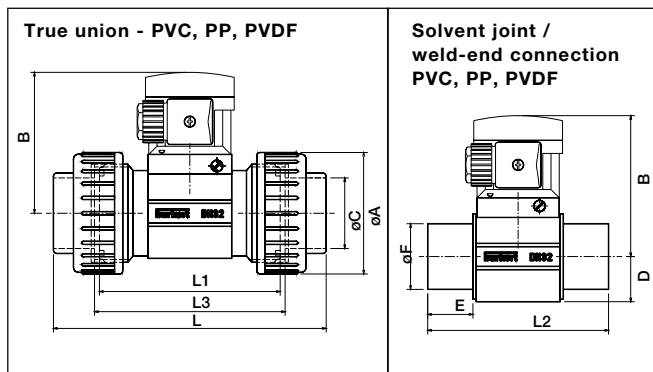
Has to be ordered separately

Fittings S030 - Ordering Chart - PLASTIC, INLINE Quarter-Turn

Specification	Item-No.					
	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
PVC True Union with solvent spigot (ISO version)	423 938 N	423 939 P	423 940 U	423 941 R	423 942 J	423 943 K
PVC True Union with solvent spigot (ASTM version)	423 950 W	423 951 K	423 952 L	423 953 M	423 954 N	423 955 P
PVC True Union with solvent spigot (JIS version)	429 072 T	429 073 U	429 074 V	429 075 W	429 076 X	429 077 Y
PVC Solvent joint connection (ISO version)	423 944 L	423 945 M	423 946 N	423 947 P	423 948 Y	423 949 Z
PP True Union with fusion spigot (ISO version)	423 956 Q	423 957 R	423 958 S	423 959 T	423 960 Y	423 961 M
PP Weld-end connection (ISO version)	423 962 N	423 963 P	423 964 Q	423 965 R	423 966 J	423 967 K
PVDF True Union with fusion spigot (ISO version)	423 968 U	423 969 V	423 970 S	423 971 P	423 972 Q	423 973 R
PVDF Weld-end connection (ISO version)	423 974 J	423 975 K	423 976 L	423 977 M	423 978 W	423 979 X

Has to be ordered separately

Dimensions [mm]



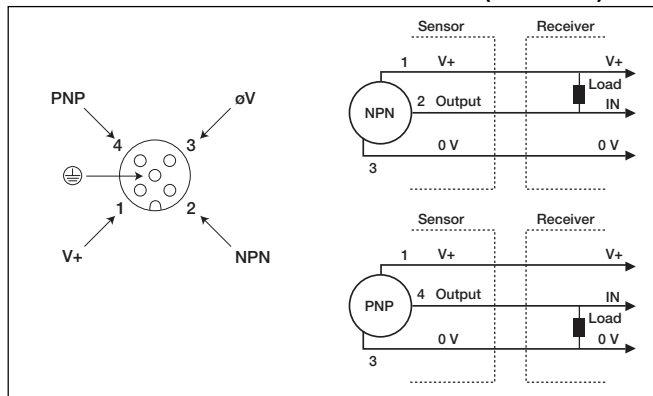
Variable dimensions [mm]

PVC, PP, PVDF

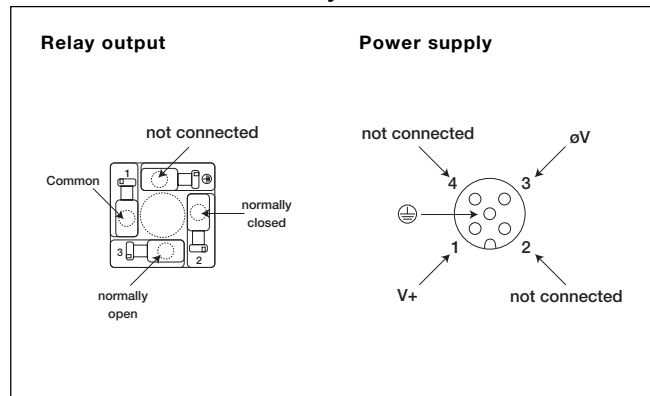
DN	L			ØA	B	ØC			F	D	L1	L3	L2		E
	DIN	ANSI	JIS			DIN	ANSI*	JIS*					PVC	PP, PVDF	
15	128	130	129	43	84,5	20	21,3	18,4	20	17,5	90	96	90	85	16,5
20	144	145,6	145	53	82	25	26,7	26,45	25	17,5	100	106	100	92	20
25	160	161,4	161	60	82,2	32	33,4	32,55	32	21,5	110	116	110	95	23
32	168	170	169	74	85,8	40	42,2	38,6	40	27,5	110	116	110	100	27,5
40	188	190,2	190	83	89,6	50	48,3	48,7	50	31,5	120	127	120	106	30
50	212	213,6	213	103	95,7	63	60,3	60,8	63	39,5	130	136	130	110	37

* only for PVC

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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