



Double sensor for electrical position feedback For double sensor (Ball valve 546 Pro, 543 Pro and Butterfly Valve 565)

Model:

- Accessory for Ball Valve type 546 Pro, 543 Pro and Butterfly Valve 565
- Enables electrical position feedback, incl. LED, in combination with GF interface module
- IP67 rating
- Female connector and cables available – see 198546150 – 154
- NAMUR version has ATEX and IECEx certification
- Dimensions: Ball Valves 546 Pro and 543 Pro DN10-50, Butterfly Valve 565 DN50-300

Specifications:

- Housing material: PBTGF20
- Switching function: 2x normally open (NO)
- Output type: PNP
- Output polarity: DC
- Output type: 3-wire
- Operating voltage (U_B): 10... 30V DC
- Reverse polarity protection: all connections
- Voltage drop (U_d): $\leq 3V$
- Operating current (I_L): 0... 150mA
- Off-state current (I_r): 0... 0.5mA typ. 0.1 μA at 25°C
- No-load supply current (I_o): $\leq 25mA$
- Ambient temperature: -25...70°C (-13...158°F)
- Connection (system side): 4-pin, M12 x 1 connector
- Standards: EN 60947-5-2:2007, EN 60947-5-2/A1:2012 IEC 60947-5-2:2007, IEC 60947-5-2 AMD 1:2012
- MTTF_d 948 a

Note:

*NAMUR sensor does not work with 565

For manually operated valves an additional switching ring (article number 199565900-199565003) is required. For electric or pneumatic operated valves, the switching ring is already pre-assembled.

LED Signal Colour	PNP Code	SP	Weight (kg)	NPN Code	*Namur (Atex) Code	L1 (mm)	L2 (mm)	L3 (mm)	M1
Closed: green / open: red	198 546 001	1	0.050	198 546 005	198 546 003	26	30	15	M12
Closed: red / open: green	198 546 002	1	0.050	198 546 006	198 546 004	26	30	15	M12

Technical data	PNP/NPN	NAMUR
Technology	Inductive	
Output circuit	PNP, NPN 2x normally open (NO)	NAMUR 2x normally closed (NC)
Hysteresis	Typically 5%	Typically 10%
Switching frequency	<500 Hz	<1000 Hz
Output indicator	Output 1 / 2 LED red / green LED green / red LED red / green LED green / red	Output 1 / 2 LED red / green LED green / red
Art. Nr. 198546001 PNP		
Art. Nr. 198546002 PNP		
Art. Nr. 198546005 NPN		
Art. Nr. 198546006 NPN		
Art. Nr. 198546003 NAMUR		
Art. Nr. 198546004 NAMUR		
Voltage supply range +Vs	10...30V DC	8.2 V
Operating current	0...150 mA	
Voltage drop (Ud)	≤3V	
Off-state current (I _r)	0... 0.5mA typ. 0.1 μA at 25°C	
No-load supply current (I ₀)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short circuit protection	Yes	
Reverse polarity protection	Yes	
Protection class	IP67	
Housing material	PBTGF20	
Operating temperature	-25...70 °C (-13...158°F)	
Connection	4-pin, M12x1	
NAMUR Version Approvals/Certificates	Safety Integrity Level: SIL 2 IECEX TUR 20.0002X (Ga, Gb, Mb) TUV 19 ATEX 8467 X(Ga, Gb)	

The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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