

Double sensor DCI for electrical position feedback
(Ball valve 546 Pro, 543 Pro and Butterfly Valve 565/567/578)

Model:

- Accessory for Ball Valve type 546 Pro, 543 Pro and Butterfly Valve 565/567/578
- 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 DN10-100, Butterfly Valve 565 DN50-300, Butterfly Valve 567/578 DN50-200 and DN350-600

Specifications:

Housing material: PBTGF20
Switching function: 2x normally open (NO)
Output type: PNP or NPN
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_0): $\leq 25mA$
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

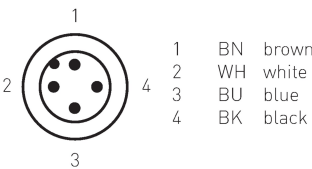
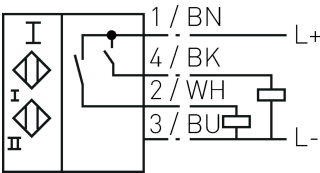
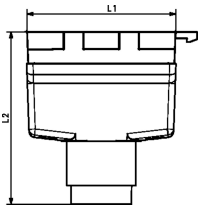
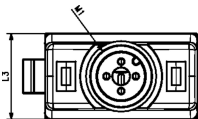
Note:

*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	Electrical connection	Output	PNP Code	SP	Weight (kg)	NPN Code	*Namur (Atex) Code
Closed: green / open: red	4-pin, M12 x 1	3-wire	198 546 001	1	0.050	198 546 005	198 546 003
Closed: red / open: green	4-pin, M12 x 1	3-wire	198 546 002	1	0.050	198 546 006	198 546 004

Data sheet

valid from: 5/13/25



L1	L2	L3	M
(mm)	(mm)	(mm)	
26	30	15	M12
26	30	15	M12

Specifications	PNP/NPN	NAMUR
Technology	Inductive	Inductive
Output circuit	PNP, NPN 2x NO contact	NAMUR 2x NC contact
Hysteresis	Typical 5%	Typical 10%
Switching frequency	<500 Hz	<1000 Hz
Switching status display	Output 1 / 2	Output 1 / 2
Art. Nr. 198546001 PNP	LED red / green	
Art. Nr. 198546002 PNP	LED green / red	
Art. Nr. 198546005 NPN	LED red / green	
Art. Nr. 198546006 NPN	LED green / red	
Art. Nr. 198546003 NAMUR		LED green / red
Art. Nr. 198546004 NAMUR		LED red / green
Supply voltage range +Vs	10...30V DC	8.2 V
Operating current	0...150 mA	
Voltage drop (Ud)	≤3V	
Off-state current (Ir)	0... 0.5mA typ. 0.1 µA bei 25°C	
No-load supply current (I0)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short-circuit proof		yes
Reverse polarity protected		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) TÜV 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.

Georg Fischer Piping Systems Ltd, Postfach, CH-8201 Schaffhausen/SwitzerlandPhone +41 -(0)52-631 1111e-mail: info.ps@georgfischer.comInternet: <http://www.gfps.com>