

GEMÜ LSF

Inductive dual sensor for quarter turn valves



Features

- Simple mounting and retrofitting to quarter turn actuators
- Compact, solid housing
- Can be attached to all quarter turn valves in accordance with the VDI/VDE 3845 standard interface
- With LED display

Description

The GEMÜ LSF inductive dual sensor is suitable for mounting to manually and pneumatically operated quarter turn valves. It is also fitted with an optical position indicator for visual confirmation of position.

Technical specifications

- **Ambient temperature:** -25 to 85 °C
- **Radial measuring range:** 0 to 90°
- **Supply voltages:** 10 - 30 V DC | 8 V NAMUR
- **Protection class:** IP 67
- **Electrical connection types:** M12 plug
- **Switch types:** 2-wire proximity switch (NAMUR) | 3-wire proximity switch
- **Conformities:** ATEX | CSA | Functional safety | IECEx | UL Recognized

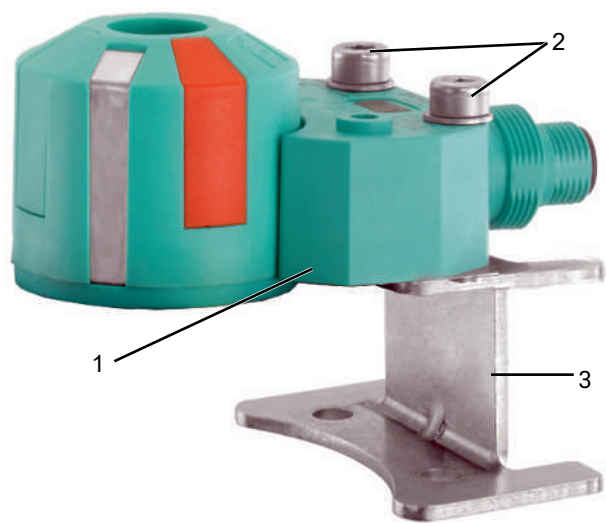
Technical data depends on the respective configuration



further information
webcode: GW-LSF



Product description



Item	Name	Materials
1	Sensor	PBT
2	Fixing screws	SS
3	Mounting kit	

Order data

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Order codes

1 Type	Code
Inductive dual sensor for quarter turn valves	LSF

2 Switch	Code
Proximity switch, 2-wire, NAMUR, ATEX ia P+F, NCN3-F25F-N4-V1	206
Proximity switch, 3-wire, dual make contact, PNP, 10–30 V DC P+F, NBN3-F25F-E8-V1	312
Proximity switch, 3-wire, dual make contact, PNP, 10–36 V DC IFM, IN5225	316

3 Accessory	Code
Accessory	Z

4 NAMUR size (VDI/VDE)	Code
Hole spacing 80 x 30, shaft height 20	01
Hole spacing 80 x 30, shaft height 30	02

4 NAMUR size (VDI/VDE)	Code
Hole spacing 130 x 30, shaft height 30	03
Hole spacing 130 x 30, shaft height 50	04
Hole spacing 80 X 30, distance adapter 10 mm for F25	A2

5 Function	Code
Open/closed	A00

6 Fieldbus	Code
Without	000

7 Electrical connection	Code
M12 plug, 4-pin	1110

8 Approval	Code
Without	
ATEX (2014/34/EU), IECEx	X

Order example

Ordering option	Code	Description
1 Type	LSF	Inductive dual sensor for quarter turn valves
2 Switch	206	Proximity switch, 2-wire, NAMUR, ATEX ia P+F, NCN3-F25F-N4-V1
3 Accessory	Z	Accessory
4 NAMUR size (VDI/VDE)	01	Hole spacing 80 x 30, shaft height 20
5 Function	A00	Open/closed
6 Fieldbus	000	Without
7 Electrical connection	1110	M12 plug, 4-pin
8 Approval		Without

Technical data

Temperature

Ambient temperature:

Switch		
Code 206	Code 312	Code 316
-25 to 100 °C	-25 to 70 °C	-25 to 80 °C

Storage temperature:

Switch		
Code 206	Code 312	Code 316
-40 to 100 °C	-40 to 85 °C	-25 to 80 °C

Product conformities

Explosion protection:

Special version X order code
ATEX, IECEx

ATEX marking:

2-wire switch, NAMUR (code 206):
Gas:  II 1G Ex ia IIC T6 ... T1 Ga
Dust:  II 1D Ex ia IIIC T 135 °C Da

IECEx marking:

2-wire switch, NAMUR (code 206):
Gas:  Ex ia IIC T6 ... T1 Ga
Dust:  Ex ia IIIC T 135 °C Da

Mechanical data

Installation position:

Optional

Protection class:

IP 67

Switching range:

0° to 90°

Electrical data

Switch type:

Code 206	Code 312	Code 316
2-wire NAMUR	3-wire, make contact, PNP	3-wire, make contact, PNP

Supply voltage:

Switch		
Code 206	Code 312	Code 316
8.2 V DC	10 to 30 V DC	10 to 36 V DC

Current consumption:

Switch		
Code 206	Code 312	Code 316
≥ 3 mA (undamped) ≤ 1 mA (damped)	Max. 200 mA	Max. 250 mA

Reverse battery protection:

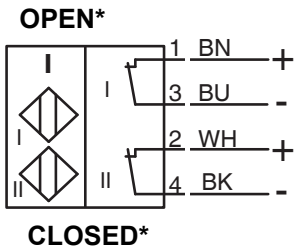
Yes

Electrical connection type:

1 x 4-pin M12 plug (A-coded)

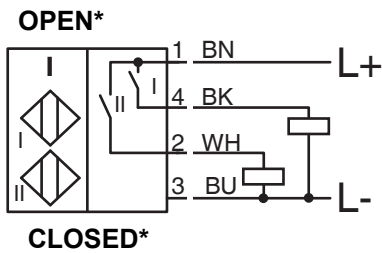
Electrical connection

2-wire switch, NAMUR, PNP, switch order option, code 206



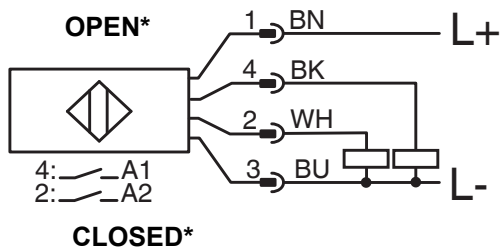
* on clockwise rotation actuators and normally closed butterfly discs

3-wire switch, make contact, PNP, switch order option, code 312



* on clockwise rotation actuators and normally closed butterfly discs

3-wire switch, make contact, PNP, switch order option, code 316



* on clockwise rotation actuators and normally closed butterfly discs

Accessory



GEMÜ 1219

Cable socket / cable plug M12

The GEMÜ 1219 is a connector (cable socket / cable plug) M12, 5-pin. Straight and/or 90° angled plug type. Defined cable length or with threaded connection without cable. Various materials available for the fixing nut.

Suitable for electrical connection of the connector X1

Description	Length	Order number
5-pin, angle	without cable	88205545
	2 m cable	88205534
	5 m cable	88205540
	10 m cable	88210911
	15 m cable	88244667
5-pin, straight	without cable	88205544
	2 m cable	88205542
	5 m cable	88205543
	10 m cable	88270972
	15 m cable	88346791



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