

Electrical Position Indicator

Construction

The GEMÜ 1232 electrical position indicator is suitable for linear valves with actuator strokes up to 20 mm (actuating travel). It has a corrosion resistant plastic housing and one or two inductive proximity switches. Switching rod and actuating spindle have a positive connection without axial play. The electrical connection is via cable gland.

Features

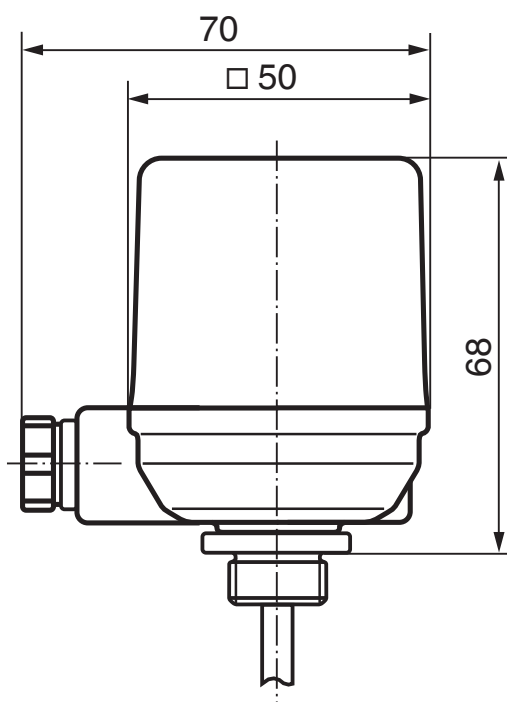
- Both proximity switches can be continuously and precisely adjusted, independently of each other, via threaded spindles
- Device can be rotated through 360°
- Customer-specified connectors available as an option
- UL approval available as an option

Advantages

- Simple mounting and retrofitting to GEMÜ linear actuators
- Mounting to other valve makes possible
- Compact design in a stable housing
- The switches are not subject to wear, contactless detection
- Protection class IP 65 to EN 60529



Dimensions - GEMÜ 1232 [mm]



Technical data

Operating conditions

Setting range of limit switch	2 - 20 mm continuous
Ambient temperature	-20° ... +60°C
Protection class	IP 65 EN 60529

Materials

Housing cover, Polysulfone	PSU
Housing base, Polypropylene 30% GF	PP
Operating spindle	1.4104
Operating spindle	1.4104
Damping piece	1.4104

Electrical connection

M 16 cable gland	1 x available
Cable diameter	4.5 ... 7 mm
Recommended cross section of wire	0.75 mm ²

Approvals

UL, UR (recognized)	UL 508
CSA, C22.2	No. 14-M91
For details see www.ul.com	

Option for field bus connection with AS-Interface

Supply voltage

Operating voltage 26.5 to 31.6V DC
acc. to AS-Interface specification
operation with yellow AS-Interface cable



Signal inputs end position

"CLOSED" position AS-Interface input Port D1
"OPEN" position AS-Interface input Port D0

AS-Interface

Reverse battery protection Standard
AS-Interface profile S 3.F
I/O Code 3
ID-Code F
AS-Interface certificate 22902

Connection

(operation with yellow AS-Interface cable)
Connector AS-Interface M12 plug

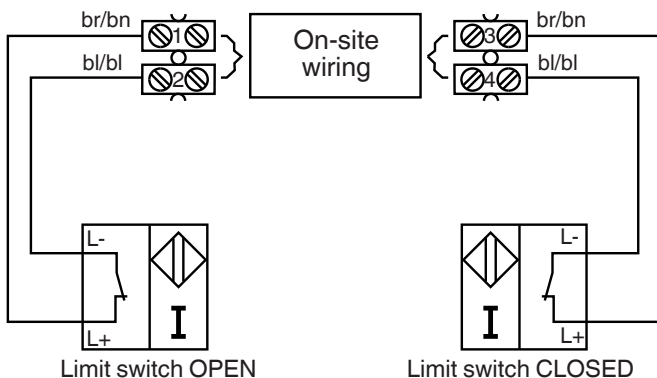
Accessories

Recomm. mating connector GEMÜ 4180 AZ 01 01 01
Recomm. AS-Interface cable GEMÜ 4170 AZ 01 01 01 00

Switch

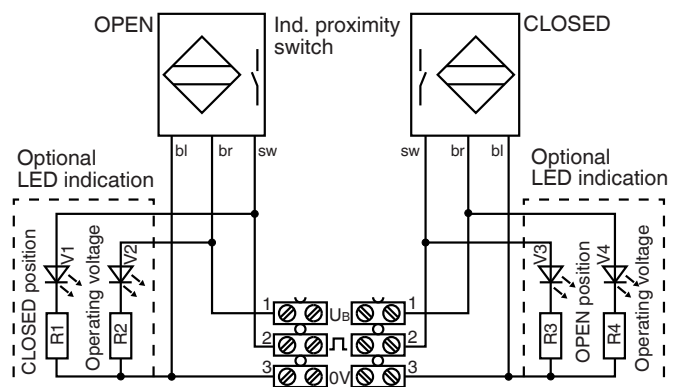
3-wire proximity switch PNP (code 305)				2-wire NAMUR (code 207)	
	Standard	UL Approval	Option with LED		Standard
Rated voltage U_B	24 V DC	24 V DC	24 V DC	Rated voltage	8 V Namur
Intrinsic current consumption, damped	≤ 40 mA	≤ 40 mA	≤ 80 mA	Rated current, damped	< 1 mA
Intrinsic current consumption, undamped	≤ 24 mA	≤ 24 mA	≤ 44 mA	Rated current, undamped	≥ 3 mA
Max. switching frequency	1 kHz	1 kHz	1 kHz	Max. switching frequency	1 kHz
Operating voltage	10 - 30 V DC	10 - 30 V DC	10 - 30 V DC	-	-
On-load current	200 mA	200 mA	180 mA	-	-
Voltage drop	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	-	-

Connection diagram, code 202

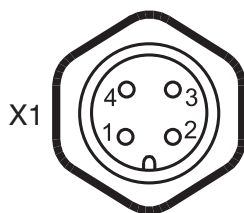


Connection diagram, code 303

U_B = Operating voltage
□ = Signal output
0V = GND, 0V

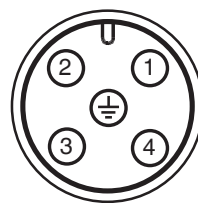


Connection diagram M12 plug, 4-pin, code 304



PIN	Standard	Option with LED
1	L1/L+, supply voltage	L+, supply voltage (U _b =10-30 V DC)
2	Us, signal end position CLOSED	Us, signal end position CLOSED
3	N/L-, supply voltage	L-, supply voltage (U _b =10-30 V DC)
4	Us, signal end position OPEN	Us, signal end position OPEN

Connection diagram AS-Interface version, code 312



Pin	Signal name
1	AS-Interface voltage +
2	n.c.
3	AS-Interface voltage -
4	n.c.
⏏	PE, Protective earth conductor

Order data

Field bus	Code
Without	000
AS-Interface	A1

Switch	Code
2-wire NAMUR (only connection diagram code 202)	207
3-wire proximity switch PNP	305
Other switches on request	

Function	Code
OPEN/CLOSED NAMUR	A00
OPEN NAMUR	A01
CLOSED NAMUR	A02
OPEN/CLOSED PNP with LED only in field bus version 000	A10
OPEN PNP with LED only in field bus version 000	A11
CLOSED PNP with LED only in field bus version 000	A12
OPEN/CLOSED PNP	A30
OPEN PNP	A31
CLOSED PNP	A32

Electrical connection	Code
M16 cable gland	1101
M16 Skintop cable gland	1103
M12 plug, 4-pin	1110

Connection diagram	Code
Terminals	303
M12 plug, 4-pin; PNP (A3x)	304
AS-Interface version	312

Approval	Code
without	-
UL approval *	U
* not for all versions	

Order example	1232	000	Z	A30	305	1101	303	-
Type	1232							
Field bus (code)		000						
Accessory			Z					
Function (code)				A30				
Switch (code)					305			
Electrical connection (code)						1101		
Connection diagram (code)							303	
Approval (Code)								-

Please order mounting kit 1232 S01Z... (spindle + mounting parts) separately with reference to the particular valve type.

Further electrical position indicators for valves with linear actuator e.g. diaphragm and globe valves

GEMÜ 1215 Position indicator with microswitch



The GEMÜ 1215 single position indicator is suitable for linear actuated valves where it shows 'open' position only, or on GEMÜ type 667 where it shows 'closed' position only. The unit also has optical indication.

GEMÜ 1234 and 1235/1236 Self-learning position indicators



The GEMÜ 1234 and 1235/1236 electrical position indicators have an automated programme for setting open/closed. In addition the operating voltage and the end positions are indicated by light emitting diodes.

GEMÜ 1205 Position indicator with microswitch acc. to ATEX



The GEMÜ 1205 electrical position indicator has one or two microswitches for end position feedback which are mechanically adjustable. The device is suitable for installation in Ex-proof applications acc. to ATEX. GEMÜ 1205 is suitable for mounting to linear actuators with a max. stroke of 70 mm.

GEMÜ 1211 and 1231 Position indicators with proximity switch acc. to ATEX



The GEMÜ 1211 and 1231 electrical position indicators have one or two proximity switches for end position feedback which are mechanically adjustable. The devices are suitable for installation in Ex-proof applications acc. to ATEX. GEMÜ 1211 is suitable for mounting to linear actuators with a max. stroke of 70 mm. GEMÜ 1231 is suitable for mounting to linear actuators with a max. stroke of 20 mm.

GEMÜ 1201 and 1230 Position indicators with microswitch



The GEMÜ 1201 and 1230 electrical position indicators have one or two microswitches for end position feedback which are mechanically adjustable. GEMÜ 1201 is suitable for mounting to linear actuators with a max. stroke of 70 mm. GEMÜ 1230 is suitable for mounting to linear actuators with a max. stroke of 20 mm.

GEMÜ 1214 Position indicator with proximity switch



The GEMÜ 1214 electrical position indicator has one or two proximity switches for end position feedback which are mechanically adjustable. GEMÜ 1214 is suitable for mounting to linear actuators with a max. stroke of 70 mm.

Further electrical position indicators for valves with quarter turn actuator, e.g. butterfly and ball valves

GEMÜ 1225 - Position indicator with microswitch



The GEMÜ 1225 electrical position indicator is suitable for mounting to quarter turn actuators of GEMÜ butterfly valves DN 15-50 mm in PVC-U, brass and stainless steel. In addition to electrical indication of end positions via switches the device has an optical LED position indication as standard.

For further electrical position indicators, accessories and other products please see our Product Range catalogue and Price List. Contact GEMÜ.

GEMÜ® VALVES, MEASUREMENT
AND CONTROL SYSTEMS

