

## Electrical position indicator with inductive proximity sensors

### Construction

- Electrical position indicator for pneumatically operated GEMÜ valves
- Corrosion resistant plastic design for actuator strokes up to 70 mm
- One or two inductive proximity sensors
- Positive, direct connection of switching rod and valve spindle
- Optical position indication by LEDs at the proximity sensors
- Electrical connection via PG 13.5 cable gland

### Features

- Inductive proximity sensor with LED indication
- Both proximity sensors are independently adjustable
- The housing can be rotated through 360°
- Customer-specified plug and socket connection available as an option



### Advantages

- Easy mounting and retrofitting to GEMÜ valves
- Compact design in a stable housing
- The sensors are not subject to wear (contactless detection)
- Protection class IP 65 to DIN 40050

## Ind. proximity sensors

Operating voltage	10 - 30 V DC including residual ripple
Rated switching interval	5 mm ± 10%
No-load current	< 8 mA
Residual current	0.1 mA
Voltage drop under resistive load	< 2.5 V
Hysteresis	≤ 10%
Output capability of switching current	< 200 mA
Overload	short circuit-proof

## Admissible temperatures

Ambient temperature	-20...+60°C
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## Supply voltage

Operating voltage acc. to AS-I specification	
Operation with yellow AS-I wire	26.5 ... 31.6 V DC

## Current consumption

Design A1 with 2 inputs	≤ 60 mA
Design A2 with 2 inputs and 1 output	≤ 400 mA

## Signal inputs end position

<b>Position "OPEN"</b>	
AS-I input Indication	Port D0, 1 = OPEN yellow LED
<b>Position "CLOSED"</b>	
AS-I input Indication	Port D1, 1 = CLOSED yellow LED

## Signal output for pilot valve

<b>Valve On/Off</b>	
AS-I output Indication	Port D2, 1 = Valve ON yellow LED
On-load current	≤ 325 mA
Watchdog	Parameter P0 0=disable 1=enable

## AS-I interface

Reverse battery protection	yes
AS-I profile	S3.F
I/O-Code	3
I/D-Code	F
<b>Overview of port assignment</b>	
Input	D0, D1
Output	D2
not assigned	D3
Watchdog	P0
AS-I certificate	in preparation

## Connection

AS-I connection	via yellow wire M12 concentric plug and socket connection
Valve connection	M12 concentric plug and socket connection

## Accessories

Recomm. AS-I mating connector	GEMÜ 4180
Recomm. AS-I cable	GEMÜ 4170 AZ 01 01 01 00
Valve connection	on-site via M12 concentric plug and socket connection

## Field bus connection

	Ref. no.
Without	000
<b>AS-I</b> 2 inputs, yellow AS-I wire	A1
<b>AS-I</b> 2 inputs/1 switching output yellow AS-I wire	A2

## Function

		Ref. no.
OPEN/CLOSED	PNP switching	A30
OPEN	PNP switching	A31
CLOSED	PNP switching	A32

## Switches

	Ref. no.
PNP 3-wire	304
Further switches on enquiry	

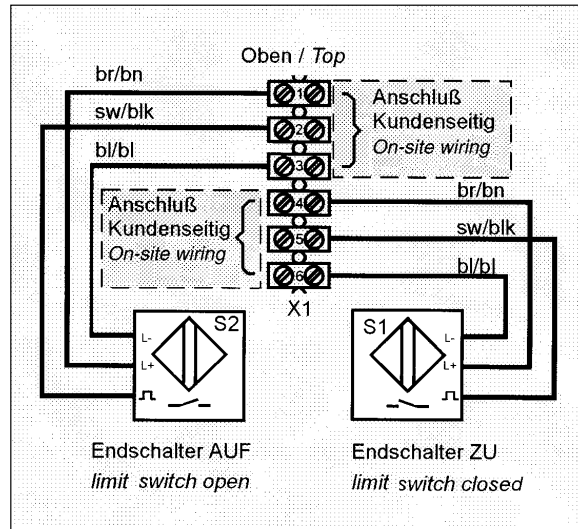
## Electrical connection

	Ref. no.
PG 13,5	3001
Binder plug PG 9 (for ref.no.A1)	3010
Two Binder plugs PG 9 (for ref.no.A2) (with reduction to PG 13.5)	3023
Further connections on enquiry	

Please order mounting kit separately with reference to the particular valve type.

Order example	1214	000	Z	A30	304	3001	301
Type	1214						
Field bus connection (reference number)		000					
Accessories			Z				
Function (reference number)				A30			
Switch (reference number)					304		
Electrical connection (reference number)						3001	
Connection diagram (reference number see page 3)							301

Connection diagram (ref.no. 301)



not for ref.no. A1 + A2

Dimensions (mm)

