GEMÜ 1234

Electrical position indicator

Features

- Adjustable switch point tolerances
- Open/Closed position indicator as standard
- Quick cable connection
- Easy to fit
- On-site end position programming
- Can be fitted to GEMÜ valves or third-party actuators

Description

The GEMÜ 1234 electrical position indicator for linear actuators has a microprocessor controlled intelligent position sensor with an integrated analogue travel sensor system. Optical position indication is made by LEDs.

Technical specifications

- **Ambient temperature:** -10 to 70 °C
- **Linear measuring range:** 1 to 10 mm
- **Supply voltages:** 24 V DC
- **Electrical connection type:** M12 plug
- **Protection class:** IP 67

Technical data depends on the respective configuration

Product description

Item	Name	Materials
1	Optical position indicator	PSU
2	Housing	PSU
3	Adapter piece	PVDF
4	Mounting kit, valve specific	Stainless steel
5	Circlip	A2
	Seals	EPDM, NBR

Order data

The order data provide an overview of standard configurations.

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

The travel length depends on the necessary mounting kit.

Note: A valve specific mounting kit is required for assembly. For designing the mounting kit, the valve type, nominal size, control function and actuator size must be stated.

Order codes

1 Type	Code
Electrical position indicator	1234

2 Accessory	Code
Accessory	Z

3 Device version	Code
Programming input, Open/Closed position feedback	1P2D

4 Electrical connection	Code
M12 plug, 5-pin	M125

5 Travel length	Code
Potentiometer, 10 mm length	010

6 Accessory housing material	Code
Base PSU black, cover PSU	H10

Order example

Ordering option	Code	Description
1 Type	1234	Electrical position indicator
2 Accessory	Z	Accessory
3 Device version	1P2D	Programming input, Open/Closed position feedback
4 Electrical connection	M125	M12 plug, 5-pin
5 Travel length	010	Potentiometer, 10 mm length
6 Accessory housing material	H10	Base PSU black, cover PSU

Technical data

Temperature

Ambient temperature: -10 Up to 70 °C

Storage temperature: 0 — 40 °C

Product compliance

Low Voltage Directive: 2014/35/EU

Mechanical data

Installation position: Optional

Weight: 120 g

Protection class: IP 67

Travel sensor: Minimum stroke: 1 mm
Maximum stroke: 10 mm
Hysteresis: 0.15 mm
Accuracy: ± 0.1 mm

Electrical data

Supply voltage Uv: 24 V DC (16 to 32 V DC)
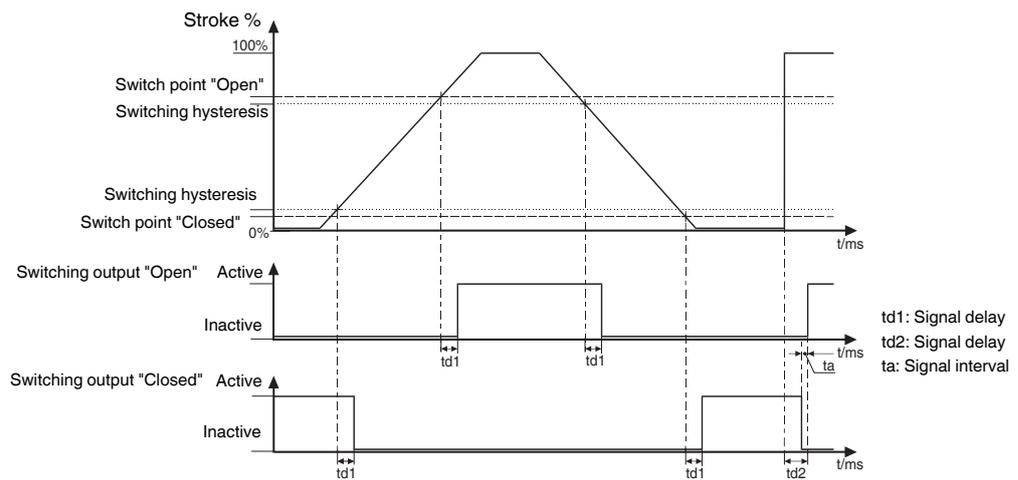
Duty cycle: Continuous duty

Protection class: III

Current consumption: typically 35 mA

Power consumption: typically 0.85 W

Electrical connection: 1 x 5-pin M12 plug (A-coded)

Switching characteristic:

Switch points: 24 V, IO-Link, AS-Interface, DeviceNet: The data in percent refer to the programmed stroke, before each end position

Switch points: ASi-5: The data in percent refers to the programmed stroke, with reference to the lower end position (0%)
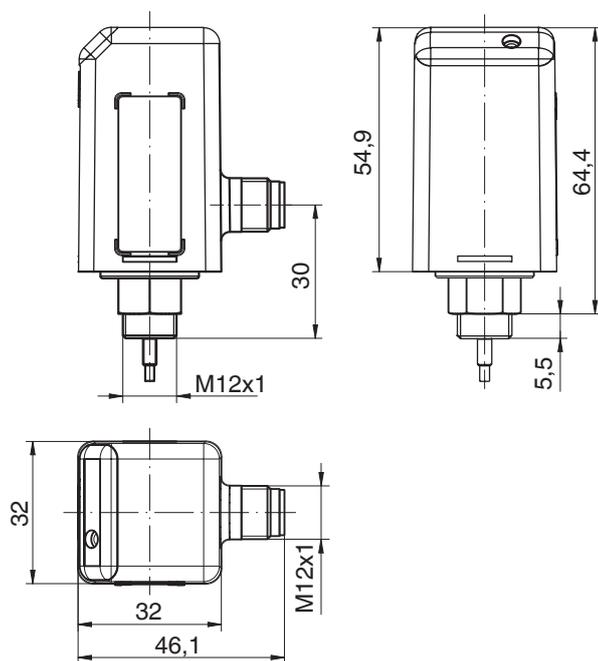
Switch points: Switch point CLOSED   12 % (min. 0.32 mm) of stroke
Switch point OPEN   25 % (min. 0.32 mm) of stroke
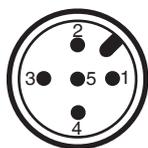
Inputs

Programming input:	24 V DC Low: 0 to 8 V DC High: 15 to 32 V DC

Outputs

Type of contact:	24 V DC, PNP
Switching voltage:	U_v - V_{drop}
Voltage drop:	$V_{drop} \leq 0.2$ V at 200 mA on-load current
Switching current:	≤ 200 mA

Dimensions

Dimensions in mm

Electrical connection

	Description
1	Uv, 24 V DC, supply voltage
2	24 V DC, OPEN end position output
3	U, GND
4	24 V DC, CLOSED end position output
5	24 V DC, programming input

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 threaded ring.

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
8-pin, angle	5 m cable	88374574
8-pin, straight	without cable	88304829

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