

GEMÜ 127x

Instrument sensor



Features

- Simple mounting by clamping to flowmeter
- Function independent of operating pressure, conductivity, concentration or density of the medium

Description

GEMÜ 1270-1273 are instrument sensors for GEMÜ flowmeters with magnetic float for continuous flow monitoring. Simple fitting by clamping to the flowmeter. Electrical connection via cable gland.

Technical specifications

- Electrical connection type : Plug, design B
- Protection class : IP 65



Product description



Item	Name	Materials
1	Housing	ABS
2	Plug	PA6

GEMÜ CONEXO

The interaction between valve components equipped with RFID chips and the corresponding IT infrastructure actively increases process reliability.



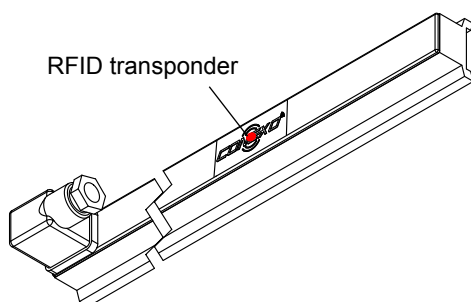
Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the servicing process much more transparent and easier to document. The app actively guides the maintenance technician through the maintenance schedule and directly provides him with all the information assigned to the valve, such as test reports, testing documentation and maintenance histories. The CONEXO portal acts as a central element, helping to collect, manage and process all data.

For further information on GEMÜ CONEXO please visit:

www.gemu-group.com/conexo

In the corresponding design with CONEXO, this product has an RFID transponder (1) for electronic recognition. The position of the RFID transponder can be seen below.

Installing the RFID transponder



Product line

	GEMÜ 1270	GEMÜ 1271	GEMÜ 1272	GEMÜ 1273
Metering length [mm]	230	118 / 147	210	118 / 125
Number of switch points	55 / 100	35 / 43	55 / 100	35 / 43
Distance of reed contacts [mm]	4.25 / 2.30	3.50 / 2.30	4.25 / 2.30	3.50
Measuring transducer	no	no	yes	yes

Availability

GEMÜ 1270, 1272

Type	DN	Order code
Flowmeter series 800		
811	20 - 65	25
815	20 - 65	25
816	20 - 65	25
817	20 - 65	25
830	20 - 65	25
831	20 - 65	25
832	20 - 65	25
833	20 - 65	25
835	20 - 65	25

GEMÜ 1271, 1273

Type	DN	Order code
Flowmeter series 840		
841	15	10
846	15	10
Flowmeter series 850		
861	10 - 20	10
865	10 - 20	10
867	10 - 20	10
880	10 - 20	10
883	10 - 20	10
885	10 - 20	10
861	25	25
865	25	25
867	25	25
880	25	25
883	25	25
885	25	25

Order data GEMÜ 1270, 1272

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
Instrument sensor for variable area flowmeter	1270
Instrument sensor for variable area flowmeter	1272

2 Fieldbus	Code
Without	000

3 Accessory	Code
Accessory	Z

4 Series	Code
Series 800, DN 20 - DN 65	25

5 Resolution	Code
55 contacts	01
100 contacts	03

6 CONEXO	Code
Without	
Integrated RFID chip for electronic identification and traceability	C

Order example

Order option	Code	Description
1 Type	1270	Instrument sensor for variable area flowmeter
2 Fieldbus	000	Without
3 Accessory	Z	Accessory
4 Series		
5 Resolution	01	55 contacts
6 CONEXO		Without

Order data GEMÜ 1271, 1273

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
Instrument sensor for variable area flowmeter	1271
Instrument sensor for variable area flowmeter	1273

2 Fieldbus	Code
without	000

3 Accessory	Code
Accessory	Z

4 Series	Code
Series 850, DN 10 - DN 20	10

4 Series	Code
Series 850, DN 25	25

5 Resolution	Code
35 contacts, GEMÜ 865, 867, 880, 885 DN 10 - DN 20	01
43 contacts, GEMÜ 865, 867, 880, 885 DN 25	
100 contacts	03

6 CONEXO	Code
Without	
Integrated RFID chip for electronic identification and traceability	C

Order codes

Order option	Code	Description
1 Type	1271	Instrument sensor for variable area flowmeter
2 Fieldbus	000	without
3 Accessory	Z	Accessory
4 Series	10	Series 850, DN 10 - DN 20
5 Resolution	01	35 contacts, GEMÜ 865, 867, 880, 885 DN 10 - DN 20 43 contacts, GEMÜ 865, 867, 880, 885 DN 25
6 CONEXO		Without Integrated RFID chip for electronic identification and traceability

Mechanical data

Protection class: IP 65

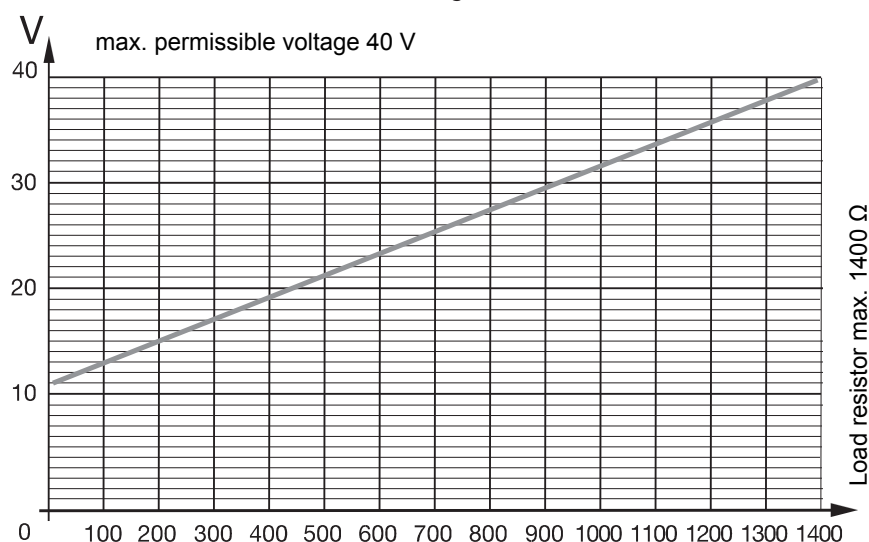
Measured data:

Device type	Number of switch points	Metering length	Distance of reed contacts
GEMÜ 1270000Z2501	55	230 mm	4,25 mm
GEMÜ 1270000Z2503	100	230 mm	2,30 mm
GEMÜ 1271000Z1001	35	118 mm	3,50 mm
GEMÜ 1271000Z2501	43	147 mm	2,30 mm
GEMÜ 1272000Z2501	55	210 mm	4,25 mm
GEMÜ 1272000Z2503	100	210 mm	2,30 mm
GEMÜ 1273000Z1001	35	118 mm	3,50 mm
GEMÜ 1273000Z2501	43	125 mm	3,50 mm

Electrical data

Supply voltage:

GEMÜ 1270, 1271: max. 24 V DC
 GEMÜ 1272, 1273: $U_{\min}$ 11 V DC + 0.02 A x load resistor (Ω)
 $U_{\max}$ 40 V DC
 For values see diagram



Max. power consumption: V x 20 mA

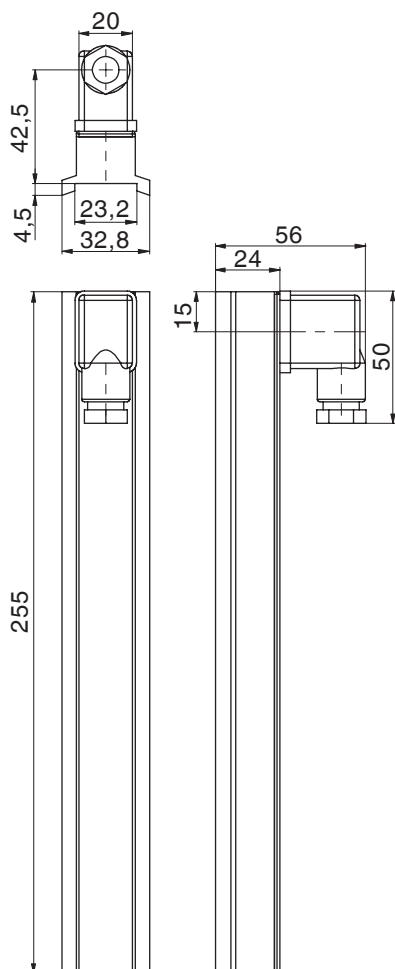
Output current: 4 - 20 mA

Detection of measured values: Series of reed contacts connected to a chain of resistors 0 – 10 k Ω

Electrical connection type: Plug, design B

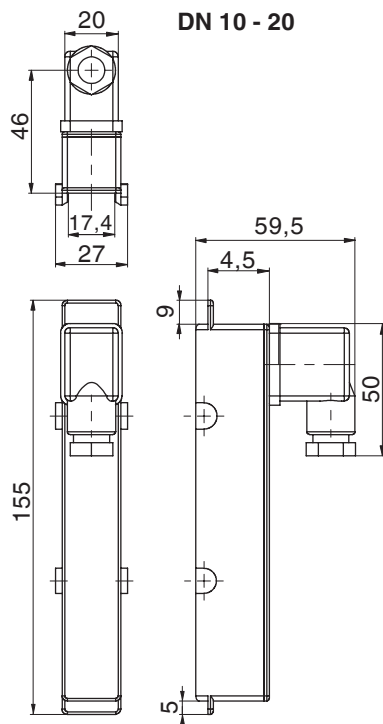
Dimensions

GEMÜ 1270, 1272

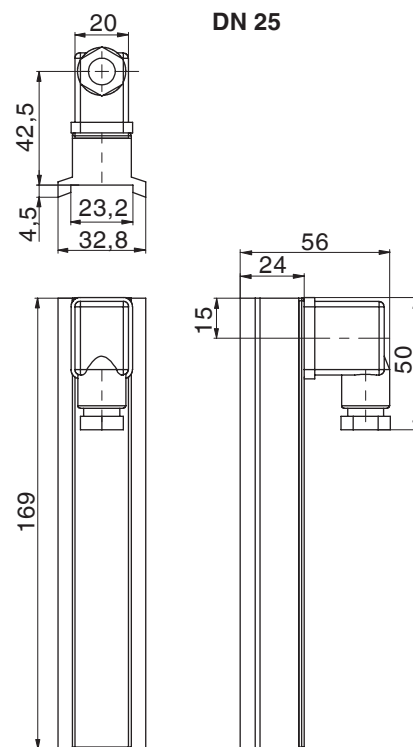


GEMÜ 1271, 1273

DN 10 - 20



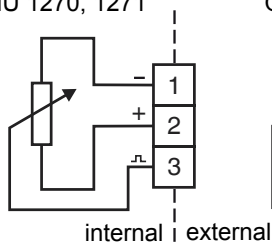
DN 25



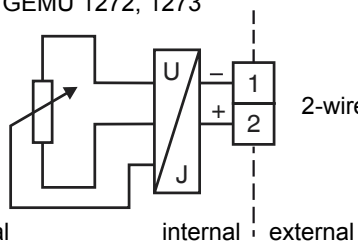
Dimensions in mm

Electrical connection

GEMÜ 1270, 1271



GEMÜ 1272, 1273



2-wire connection



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