

HALL EFFECT FLOW-RATE TRANSMITTER

ZE 3000

FEATURES

The transmitter made of ABS ZE 3000 emits a 4-20 mA signal compliant with the industrial standards, generated by a DFM flow meter depending upon the position of the magnetic float. With the ZE 3000, already installed flow meters (with magnetic float) can be easily equipped to indicate the flow-rate electrically, so as to control the process or to read the flow-rates directly on the display. The transmitter is programmed at the plant, so as to provide exact measurement and evaluation for the flow-rate.

AVAILABLE VERSIONS

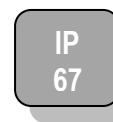
ZE 3000: Hall effect flow-rate transmitter.

Connection: DIN NE 175301-803 connector.

Voltage: 8 to 28 VDC.

LIMITS OF USE

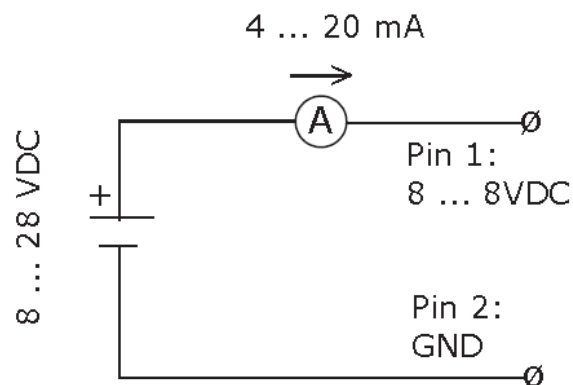
Electrical protection	IP 67
Measurement accuracy	> 0.5%
Ambient WT°	-20°C / +65°C



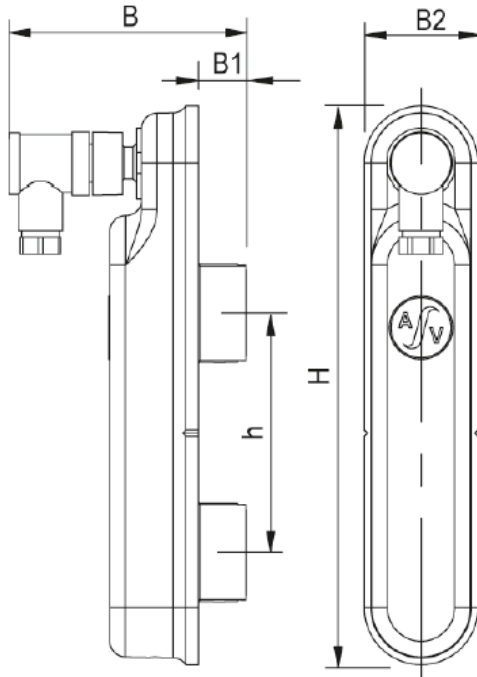
FEATURES

Power supply	8 to 28 VDC
Analog output signal (2 wires)	4-20 mA
Colour	Anthracite grey

WIRING DIAGRAM

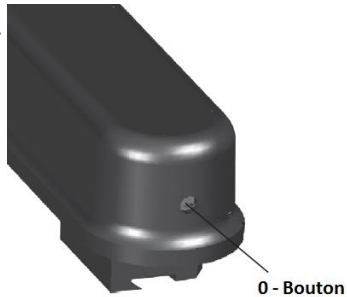


HALL EFFECT FLOW-RATE TRANSMITTER ZE 3000



ZE 3000 for DFM	
B	75
B1	15
B2	36
h	70
H	176

OPERATION AND COMMISSIONING



Once installed and powered, press the button 0 to remove any surrounding magnetic noise.
During the manoeuvre, make sure that the float is in the lower position.

NOTE: DFM flow meter with zero flow-rate.



HALL EFFECT FLOW-RATE TRANSMITTER

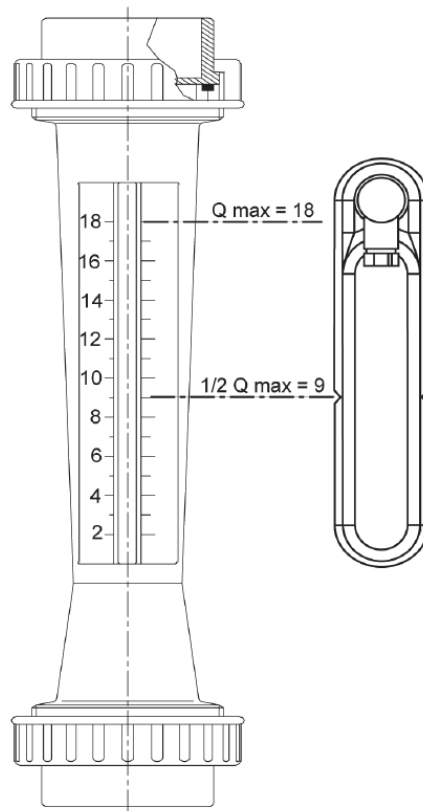
ZE 3000

INSTALLATION

The ZE 3000 is attached and tightened by the screw along the flow meter slide.

The connector is located at the top of the transmitter.

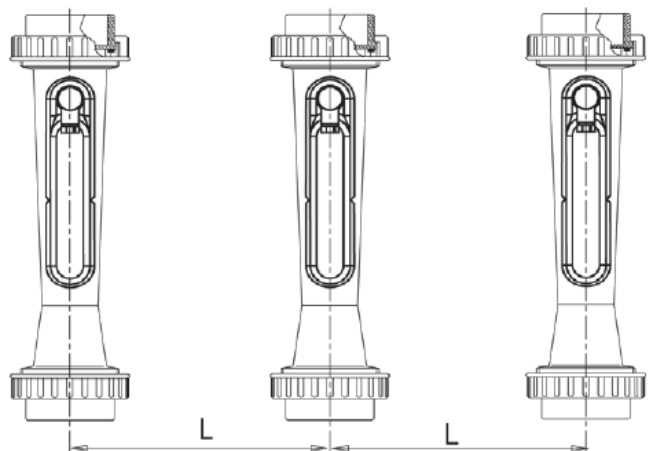
At assembly, the notch position has to be exactly at the mid-height of the measurement scale of the flow meter. Perform the wiring. (See the wiring diagram)



INSTALLATION IN PARALLEL

For an installation in parallel of several DFMs, keep the following minimum distances:

Type	L (mm)
DFM 165	200
DFM 170	200
DFM 185	200
DFM 200	200
DFM 350	400



MONOSTABLE - BISTABLE MAGNETIC SWITCH

ZE 950 - ZE 951

FEATURES

The magnetic switches of ABS, monostable ZE 950 and bistable ZE 951, serve as position indicators for the magnetic float of the DFM Ludion flow meters. They easily adapt to the attachment slides of all DFM range flow meters, at the front or rear surface.

The monostable switch ZE 950 switches in the presence of the magnetic float when the flow-rate increases or decreases.

The bistable switch ZE 951 switches permanently when the float passes. A second passage of the float is needed for the switch to regain its rest position. It can be normally open when lacking flow-rate in the NO version, or normally closed when lacking flow-rate in the NC version.

WARNING: to use the ZE 950 and ZE 951 switches, a magnetic float flow meter must be used.

AVAILABLE VERSIONS

ZE 950: Monostable magnetic sensor.

ZE 951: NO/NC bistable magnetic sensor.

Connection: DIN NE 175301-803 connector

Cut-off voltage: 10 VA Maximum

LIMITS OF USE

Electrical protection	IP 65
Frequency	50/60Hz
Ambient WT°	+0°C / +55°C



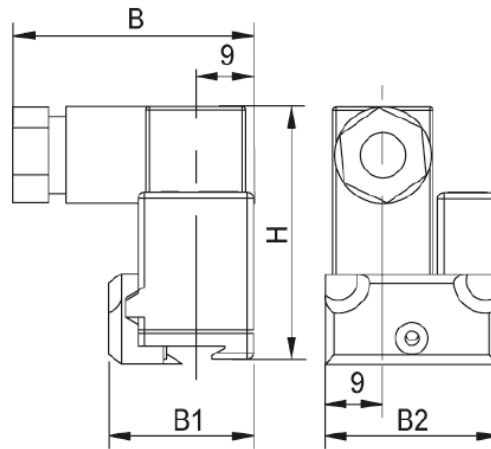
FEATURES

Maximum voltage	230V AC 50/60Hz
Maximum current	0.5A Maximum
Cut-off voltage	10 VA Maximum
Resistance	>150 mΩ
Isolation resistance	> 10 ¹⁰ Ω
Hysteresis	10 mm
Connection cable	Section: 1.5 mm ² - ø4....6
Colour	Anthracite grey

MONOSTABLE - BISTABLE MAGNETIC SWITCH

ZE 950 - ZE 951

DIMENSIONS (mm)



	ZE 950 Monostable	ZE 951 Bistable (NC)	ZE 951 Bistable (NO)
B	37.5	37.5	37.5
B1	22.6	22.6	22.6
B2	27	27	27
H	40	40	40

USE AND CONNECTION

ZE 950: The electrical current data or the communication power must not be exceeded. For this reason, a protective relay should be installed.

ZE 951: Before commissioning, the float must be passed at least 3 times in front of the ZE, to detect a possible monostable operation.

Note: The connection polarity has no effect on the operation capacity.

