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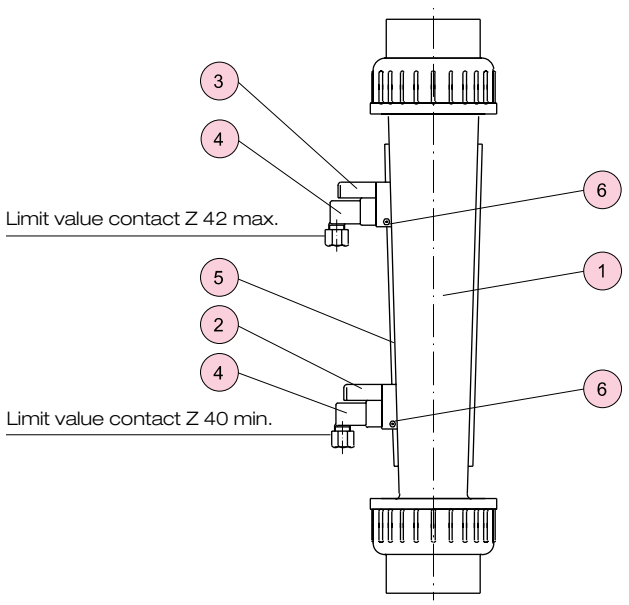
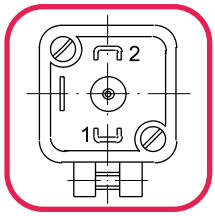
Limit value contact type Z 40 min. and type Z 42 max.
(Accessories for flow meter types M 335 / M 350, type M 123)

Functional component



No.	Description
1	Flow meter with solenoid-float
2	Limit value contact Z 40 min.
3	Limit value contact Z 42 max.
4	Angle plug for cable connection
5	Dovetail guide for mounting the Z 40 and Z 42
6	Clamping screw for fastening the limit value contact

Terminal connections



Description

Caution: *For using the limit value contacts Z 40 min. and Z 42 max. a flow meter M 335, M 350 or M 123 with solenoid-float is required.*

The limit value contacts Z 40 min. and Z 42 max. are used for external monitoring of limited flow values on our float-type flow meters. They are mounted onto the dovetail guide located on the flow measuring device and can be set to any desired value of the corresponding scale.
A solenoid installed in the float closes or opens a reed contact permanently cast in the limit value contact. The switching function is bistable. This means that the switching state is maintained even if the solenoid float moves away from the contact.

Advices

Caution: *Before starting please read the following using and mounting details.*

The limit value contacts Z 40 min. and Z 42 max. are not suitable for direct switching of larger consumers like pumps etc. In such cases you must use suitable switch components or SPS.
When retrofitting limit value contacts, ensure that the standard float is replaced with a solenoid float. The solenoid float is clearly identified by a „M“ on the top.

Installation instructions

- Put the limit value contact **2**/**3** on the dovetail guide **5**.
- Adjust the switch-point and fasten the clamping screw **6**.
- Demount the angle plug **4** and wire the cables. The seal must be insert when mounting.

Technical data

Switching voltage*):	max. 230 V
Switching rating*):	max. 10 W / 12 VA
Switching current*):	max. 0,5 A
Contact resistance:	< 200 mOhm
Leakage resistance:	> 10^{11} Ohm
Environmental temperature:	0 – 55 °C
Protection class:	in acc. with ISO 20653:2013-02 - IP 65
Switching hysteresis Z 40/42:	1 – 2 mm float travel

*) Even a brief overshoot is not permitted

Order numbers

Z 40 min.	517 100 686
Z 42 max.	517 100 687

Switching status

	Float	
	above	below
Z 40 min.	open	closed
Z 42 max.	closed	open

Dokument: *FRANK_DB_L6_Grenzwertkontakt Typen Z 40 min. + Z 42 max._01-2024_EN*