

Swivelling lever with limit switch

SES | SIS

Operating instructions

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- Read and follow these safety instructions first and take notice of the operating instructions.

1. Safety instructions

- 1.1 The installation, initial operation and maintenance may be done by a qualified expert with electrical know-how only.
- 1.2 Comply with the local and statutory rules and regulations and/or the VDE 0100.
- 1.3 Before electrical connection, compare the supply voltage with the details at the data plate.

The swivelling lever has to be constantly conductible connected to the electrically conductive, earthed tubing.
- If the tubing is not electrically conductive the swivelling lever has to be earthed.

Type SES ...

- 1.4 A fuse (with max. 4 A) has to be connected in series to the supply voltage.
- 1.5 Protect the signal contacts of the limit switch against voltage peaks when inductive loads are connected.

Type SIS ...

- 1.6 A fuse (with max. 4 A) has to be connected in series to the supply voltage.

Operating instruction

1. Specification

1.1 Intended use

The swivelling lever with limit switch is for signaling that a hose coupling has been coupled at silos or tanks or coupling stations.

1.2 Function

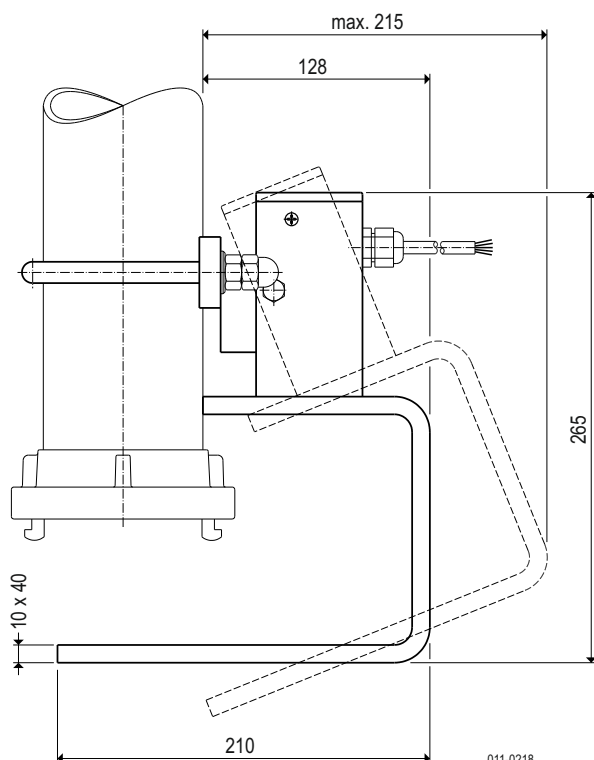
While coupling the counter coupling or hose coupling the lever is swivelling beside and the limit switch will be actuate.

1.3 Technical data

Manufacturer	MOLLET Füllstandtechnik GmbH
Address	Industriepark RIO 103 74706 Osterburken
Name	Swivelling lever with limit switch
Type	SES ... / SIS ...
Weight	3 kg
Nominal size	065 for tube \varnothing 76.1 080 for tube \varnothing 88.9 100 for tube \varnothing 108 ... 114.3 125 for tube \varnothing 133 ... 139.7 150 for tube \varnothing 159 ... 168.3
Cabel length	2 2 meter cabel 5 5 meter cabel 0 10 meter cabel

1.4 Materials	Fixing plate Steel, galvanized
	Swivelling lever Steel, galvanized

1.5 Dimensions



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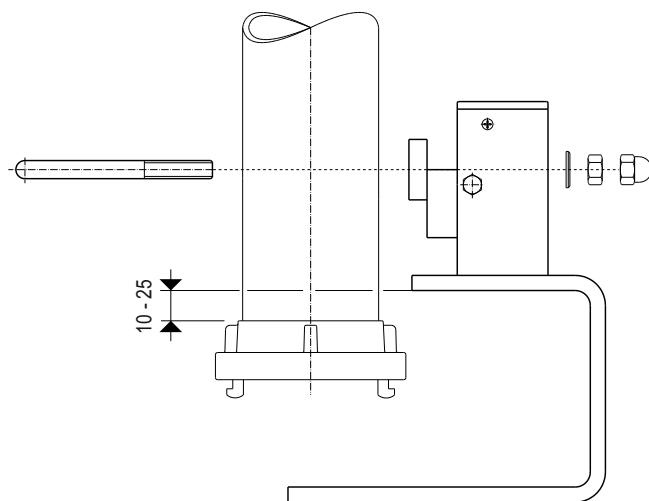
2. Installation

2.1 Preparation

Read and follow the safety instructions and the operating instructions, before handling with the device !

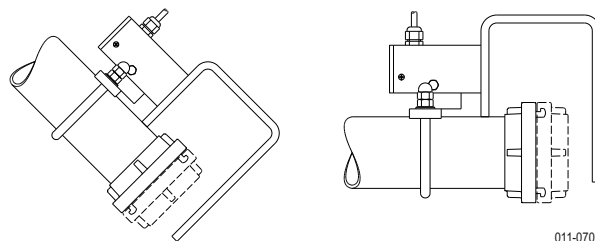
2.2 Mechanical conections

- Place the pipe shackle over the tube and into the borings of the fixing plate.
- Set the nuts and washers at the pipe shackle.
- Screw them tightly on.
- Align the swivelling lever as shown in the drawing below with a distance of about 10 up to maximum 25 mm to the coupling.



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- Check whether the lever can be swivelled out without obstruction.
- In case of slanting or horizontal pipe always fasten to the upper side. The lever must fall into the final position shown in the drawing by virtue of its own weight.



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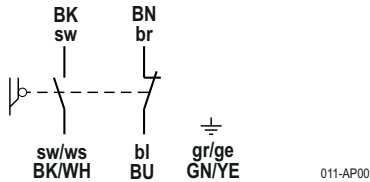
- Screw the both nuts so that the two threaded ends are about the same length.
- Now put the cap nuts on and screw them tightly.

2.3 Electrical connection

SES ... Limit switch with mechanical contact

Material	Switch	Zn-Al alloy
Switching voltage		10 ... 250 V AC or DC
Switching function		1 NC + 1 NO
Capacity of the contact		max. 1.5 A / 250 V AC
Ambient temperature		-20 °C ... +60 °C
Type of protection		IP67/IP66 acc. DIN EN 60529

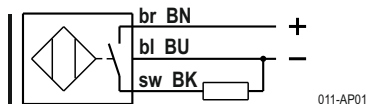
Connection diagram



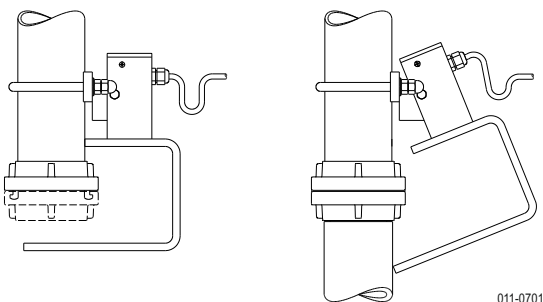
SIS ... Inductive proximity switch

Material	Switch	CuZn nickel plated
	active surface	PA12
Supply voltage		10 ... 30 V DC
Switching function		PNP, Normally Open (NO)
Load current capacity		≤ 200 mA, constant current
Ambient temperature		-20 °C ... +60 °C
Type of protection		IP67/IP66 acc. DIN EN 60529

Connection diagram



Lay a loop at the swivelling lever to compensate the swivelling movement.



3. Utilization

3.1 Commissioning

Put the swivelling lever into operation only, if the installation and the electrical connection have been done correctly.

3.2 Normal operation

- Use the swivelling lever in its intended application only.
- Comply with the specifications on the data plate.

3.3 Inexpert handling

- Ignoring the safety instructions and the operating instructions.
- Not intended use.
- Mounting of spare parts which are no original parts.
- Violation against applicable law and standards.

4. Maintenance and Servicing

4.1 Maintenance

Inspect the swivelling lever about cleanness and smooth engagement in regular intervals. Define the intervals of the control depending on the ambient conditions and the frequency of use.

4.2 Servicing

- Carry out repairs only when the swivelling lever is disconnected from the electrical supply before.
- Damaged parts have immediately replaced with similar.
- Until the complete restoration of the proper function the swivelling lever must not be used any more.
- Use original spare parts only.

5. Storage

- Store the swivelling lever dry and dust-free.

6. Disposal

- The swivelling lever can be recycled.
- The disposal applies to the valid environmental guidelines according to the location of the carrier and the local manufacturing conditions.