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**Type code**

**Switch Function**

SPST

SPDT

**Version**

new ss-switches with metric cable gland

**Execution**

Standard with PA cable gland

with ss-cable gland

with brass cable gland

explosion proof

intrinsically safe

with plug connector

with terminal box

with shielded cable

for high media temperature

**Speciality**

with NAMUR circuit

31...-N...-....

130

160

N

N

S

M

D

I

K

T

A

W

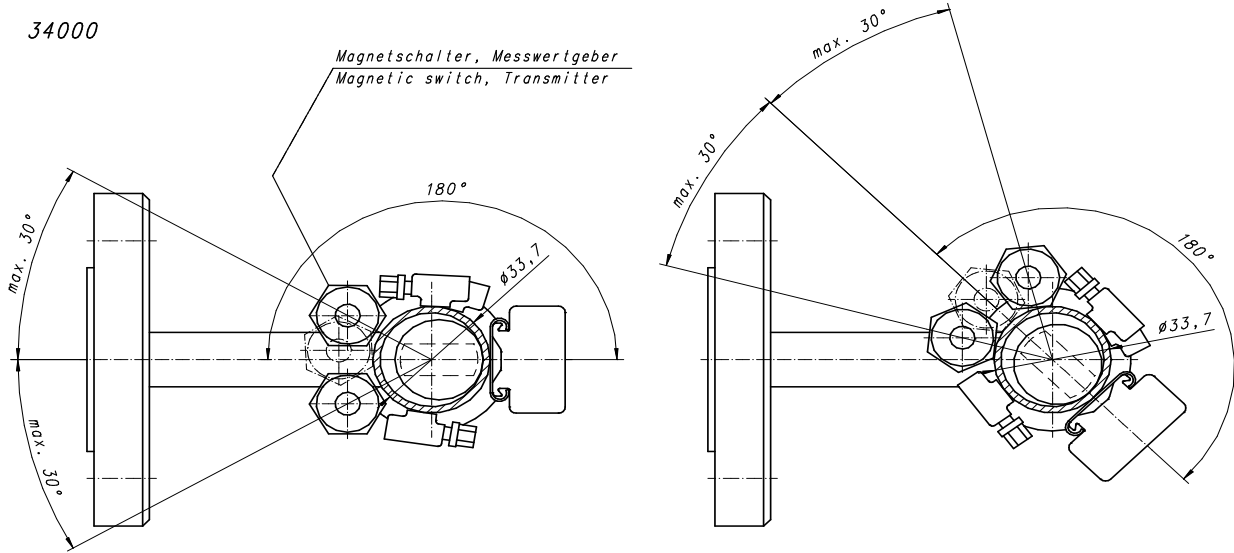
NAM

**Mounting**

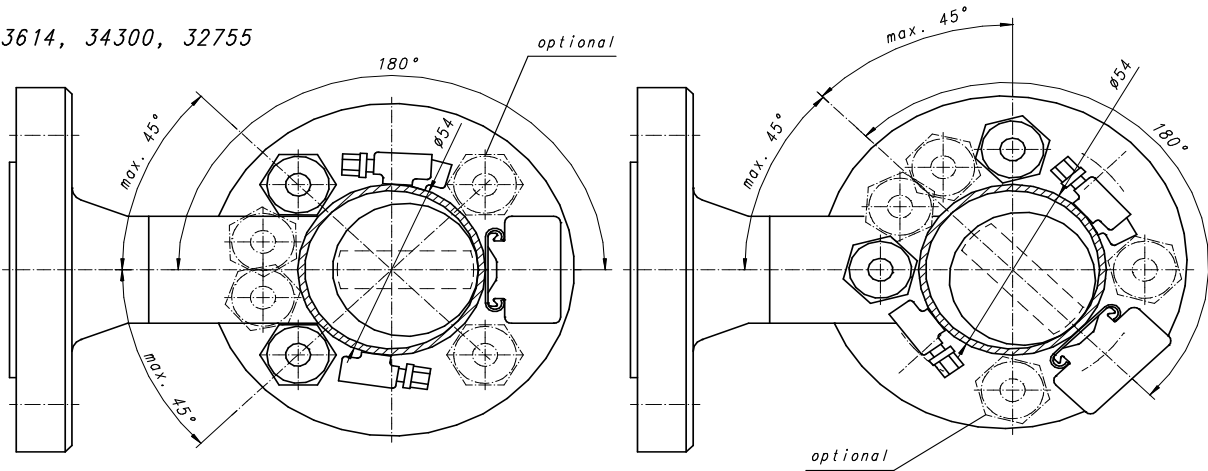
**Normal:** Valid is the indicated switching function on the type label (float below switch)  
 Installation 180 ° opposite of the indication rail with the permitted tolerance according to the tube diameter  
 Cable exit downwards

**Variation:** Each of the following variants leads to a reversion of the indicated switching logic  
 Mounting with cable exit upwards  
 Mounting adjacent to the indication rail

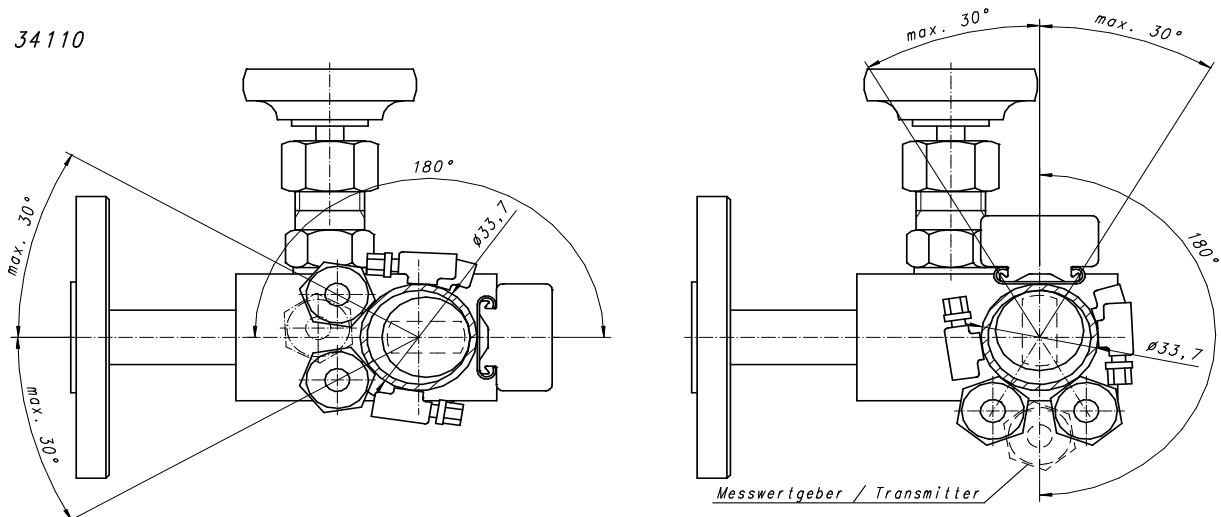
34000



23614, 34300, 32755



34110



**Caution:**

Read this information before installing level indicators that have magnetic switches.

Use of magnetic switches with inappropriate contact ratings can result in damage to the magnetic switches and malfunctioning of level indicators.

For Ex rated magnetic switches (311x0-NI / -ND) it is necessary to adhere to the specified limit values of electrical parameters of the circuit.

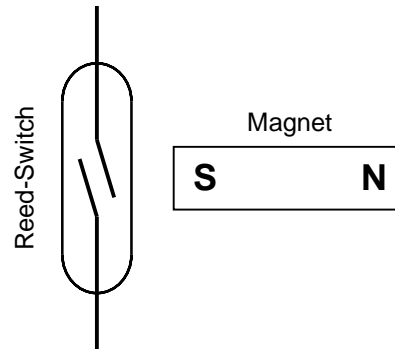
**Construction:**

The key element of a Weka magnetic switch module or sub-assembly is a reed switch.

A reed switch consists of two pieces of special flattened wire (the reeds or "paddles") hermetically sealed in a glass capsule. The reed switch is actuated by the magnetic field of the float. The glass capsule is filled with a protective gas that ensures high electrical life expectancy of millions of switching cycles.

**Contact rating (resistive loads):**

	Typ	Contact rating
N/O or N/C switches	31130 -NN	max. 250V max. 1A max. 220VA max. 160W
	31130 -NW	
	31130 -NA	
	31130 -NK	
	31130 -NI	
	31130 -ND	
	31130 -NM	
Changeover switches	31160 -NN	max. 250V max. 1A max. 60VA max. 40W
	31160 -NW	
	31160 -NA	
	31160 -NK	
	31160 -NI	
	31160 -ND	
	31160 -NS	



These values apply only for resistive loads.  
For inductive loads, see below.

**Note:**

None of the specified values may be exceeded.

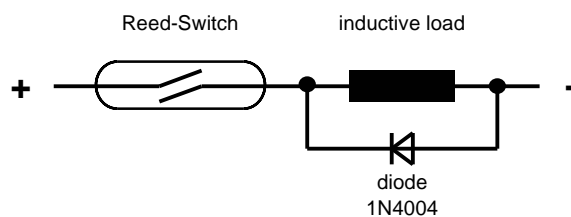
**Caution:**

For many resistive load applications, the electrical circuit can have inductance and / or capacitance. Voltage spikes of 6 to 7 times the normal values can occur when switching off inductive loads. This can sometimes result in the contacts getting welded together, destroying the switch.

Examples of inductive loads are transformers, solenoid operated devices (valves, contactors), some types of wound-filament lamps, etc.

**Protecting magnetic switches used with inductive loads:**

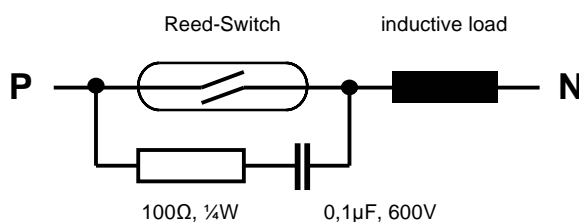
**Figure 1 (D.C.)**



**For D.C. applications:**

A diode connected across the load coil short circuits the reverse voltage spike that occurs when the supply is switched off, thus protecting the switch contacts.

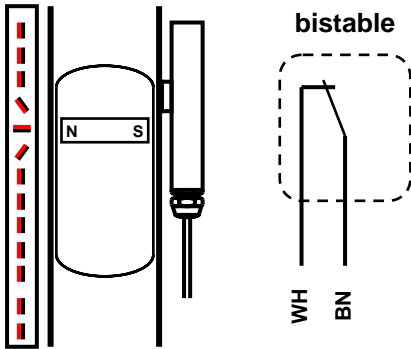
**Figure 2 (A.C.)**



**For A.C. applications:**

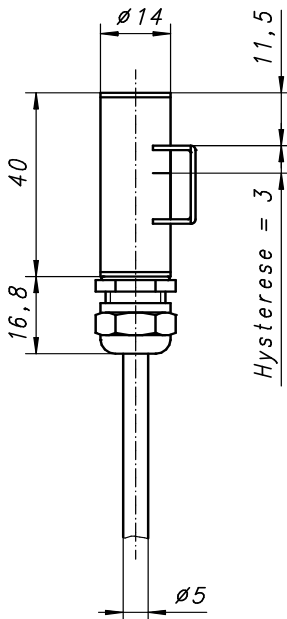
A resistor and capacitor in series connected across the switch forms a high impedance path at normal A.C. frequencies. This impedance turns low at high frequencies, diverting spike currents from the switch.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>37557/3</b>	<b>with 3m cable</b>
	<b>37557/5</b>	<b>with 5m cable</b>
	<b>37557/10</b>	<b>with 10m cable</b>
	<b>37557/20</b>	<b>with 20m cable</b>

**Function**

**On/off switch, bistable**

<b>Contact rating</b>	max.	100V
	max.	0.5A
	max.	10VA
	max.	10W
<b>On/off switch, bistable</b>	Rhodium	
<b>Activation speed</b>	ca. 5ms	
<b>Bouncing time</b>	ca. 0.5ms	

**Enclosure** IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 3...6mm
Seal	Neoprere (CR), Perbunan (NBR)
Cable	LiYY, grey, Ø 5.2mm
Shield	not shielded
Cable cores	2 x 0,50mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature                      Temperature of liquid within the float chamber  
Ambient temperature                    Temperature of air around the magnetic switch

**Fixation**

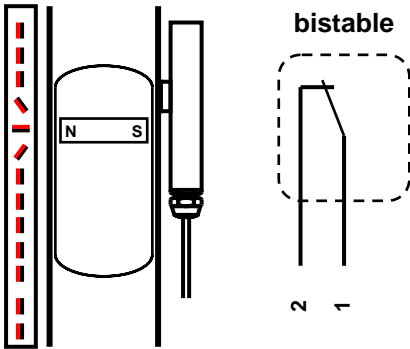
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

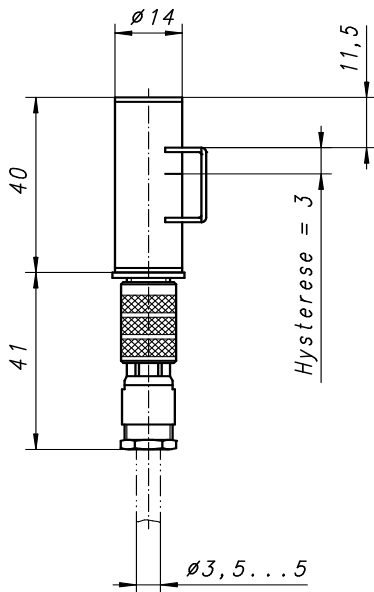
The magnetic switch is especially developed for operation with low power, i.e. control lines, series-parallel-series memory etc.  
Excessive load can destroy the switches!  
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.152

Please refer to the safety guidelines.

**Product code**

**37589**

**(with counter plug, without cable)**

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max. 100V  
 max. 0.5A  
 max. 10VA  
 max. 10W

**Contact material**

Rhodium

**Activation speed**

ca. 5ms

**Bouncing time**

ca. 0.5ms

**Enclosure**

IP65 - plugged and locked

**Material**

Housing: Stainless steel 316 /316L  
 Cable gland: Brass, nickel-plated  
 Seal: PA66 (UL 94 HB)  
 Insert: 2-pole, Ni + 0.8µm Au  
 Connection: Solder-terminal  
 Cable cores: max. 0.25mm<sup>2</sup> / AWG 24  
 Cable diameter: 3.5...5mm  
 Tag label: Polyester, blue, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
 Ambient temperature

Temperature of liquid within the float chamber  
 Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery

If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

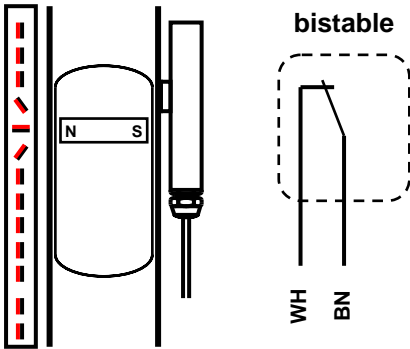
**Remarks**

The magnetic switch is especially developed for operation with low power, i.e. control lines, series-parallel-series memory etc.

Excessive load can destroy the switches!

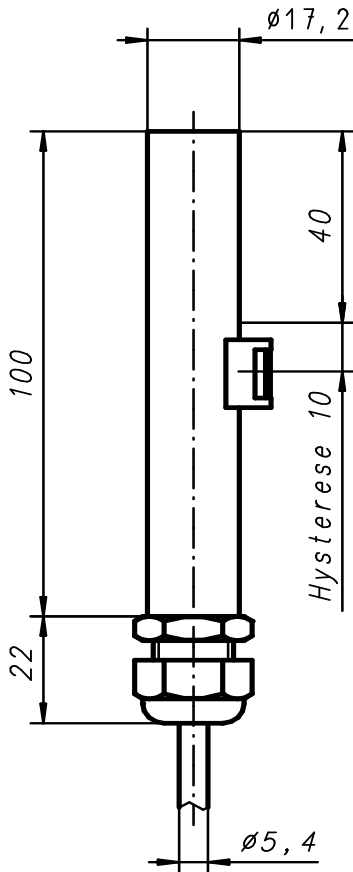
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31130-NN/3</b>	<b>with 3m cable</b>
	<b>31130-NN/5</b>	<b>with 5m cable</b>
	<b>31130-NN/10</b>	<b>with 10m cable</b>
	<b>31130-NN/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max.	250V
max.	1.3A
max.	80VA
max.	80W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	PA6, grey, 3...8mm
Insert	Perbunan (NBR)
Cable	LiYY, grey, $\varnothing$ 5.4mm
Shield	not shielded
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

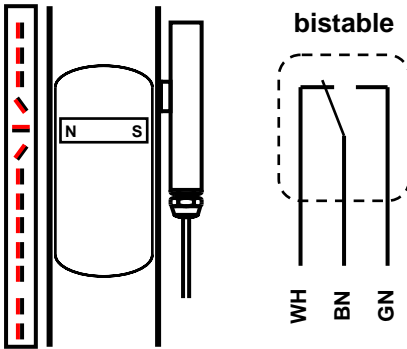
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

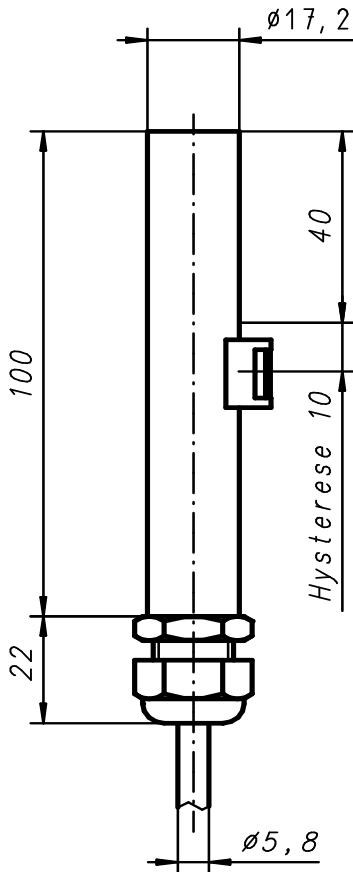
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31160-NN/3</b>	<b>with 3m cable</b>
	<b>31160-NN/5</b>	<b>with 5m cable</b>
	<b>31160-NN/10</b>	<b>with 10m cable</b>
	<b>31160-NN/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

<b>Contact rating</b>	max.	230V
	max.	1A
	max.	60VA
	max.	60W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	PA6, grey, 3...8mm
Seal	Perbunan (NBR)
Cable	LiYY, grey, Ø 5.8mm
Shield	not shielded
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

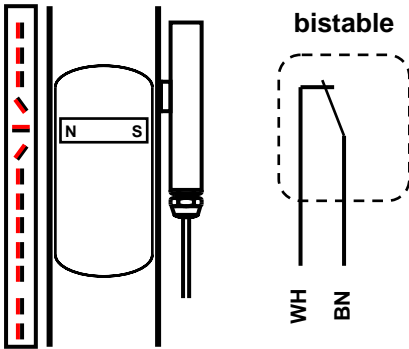
If ordered together with a VLI fixation is included in the delivery  
 If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

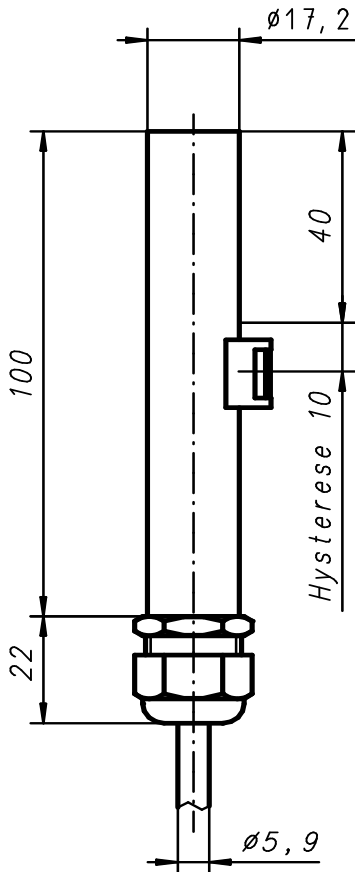
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31130-NW/3</b>	<b>with 3m cable</b>
	<b>31130-NW/5</b>	<b>with 5m cable</b>
	<b>31130-NW/10</b>	<b>with 10m cable</b>
	<b>31130-NW/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

<b>Contact rating</b>	max.	250V
	max.	1.3A
	max.	80VA
	max.	80W

**Enclosure**

IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 5...10mm
Seal	FKM / Fluoroelastomer
Cable	Silicone, Si-SL-O, rot, Ø 5.9mm
Shield	not shielded
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Aluminium, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+350°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery

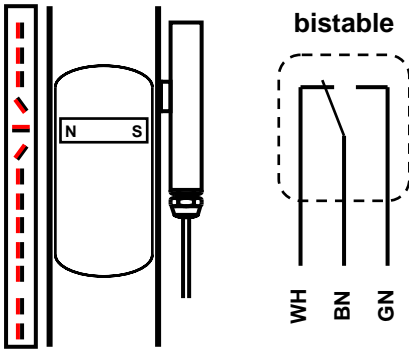
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

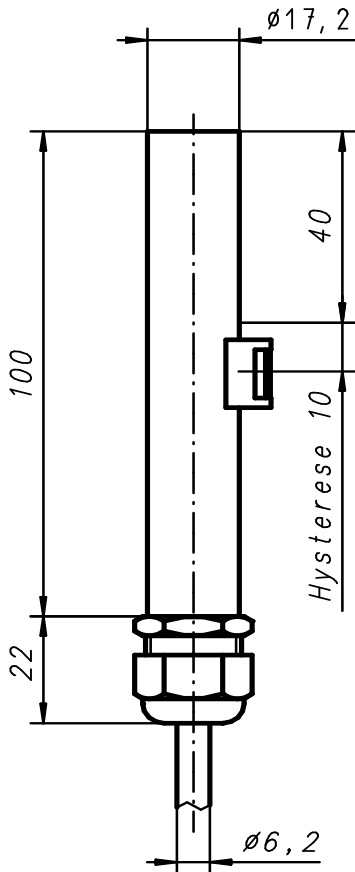
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31160-NW/3</b>	<b>with 3m cable</b>
	<b>31160-NW/5</b>	<b>with 5m cable</b>
	<b>31160-NW/10</b>	<b>with 10m cable</b>
	<b>31160-NW/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

<b>Contact rating</b>	max.	230V
	max.	1A
	max.	60VA
	max.	60W

**Enclosure**

IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 5...10mm
Seal	FKM / Fluoroelastomer
Cable	Silicone, Si-SL-O, rot, Ø 6.2mm
Shield	not shielded
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Aluminum, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+350°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery

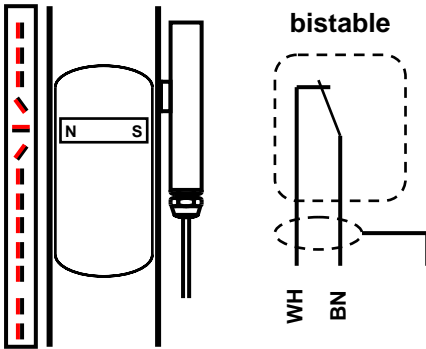
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

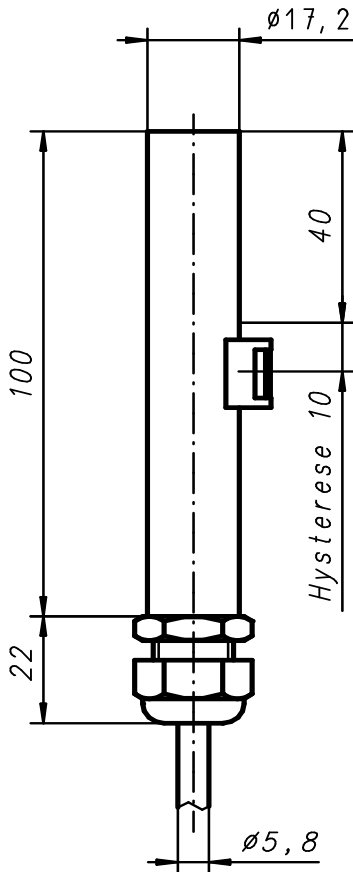
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

<b>31130-NA/3</b>	<b>with 3m cable</b>
<b>31130-NA/5</b>	<b>with 5m cable</b>
<b>31130-NA/10</b>	<b>with 10m cable</b>
<b>31130-NA/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max.	250V
max.	1.3A
max.	80VA
max.	80W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	PA6, grey, 3...8mm
Seal	Perbunan (NBR)
Cable	LiYCY/EB, blue, Ø 5.8mm
Shield	shielded, but not connected
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

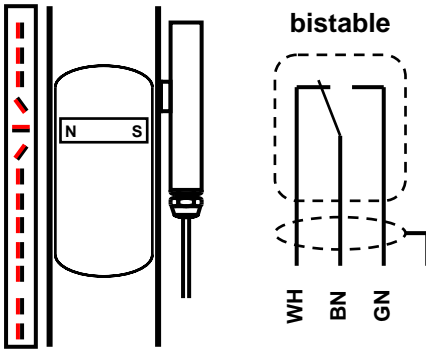
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

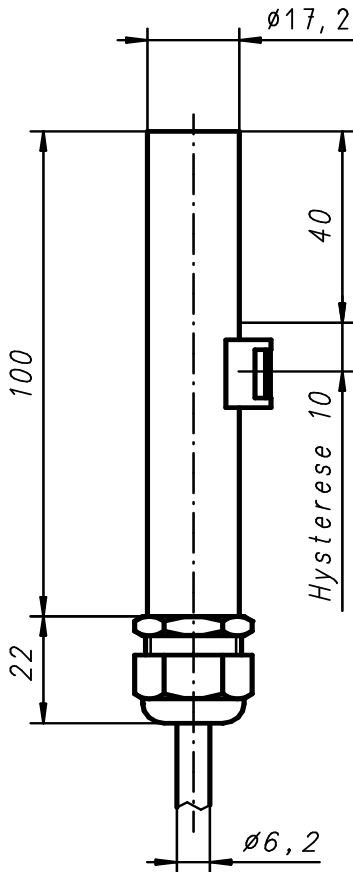
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

<b>31160-NA/3</b>	<b>with 3m cable</b>
<b>31160-NA/5</b>	<b>with 5m cable</b>
<b>31160-NA/10</b>	<b>with 10m cable</b>
<b>31160-NA/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

**Contact rating**

max.	230V
max.	1A
max.	60VA
max.	60W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	PA6, grey, 3...8mm
Seal	Perbunan (NBR)
Cable	LiYCY/EB, blue, $\varnothing$ 6.2mm
Shield	shielded, but not connected
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

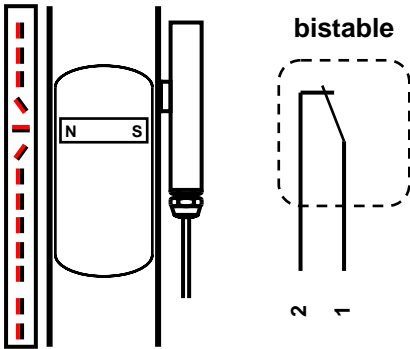
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

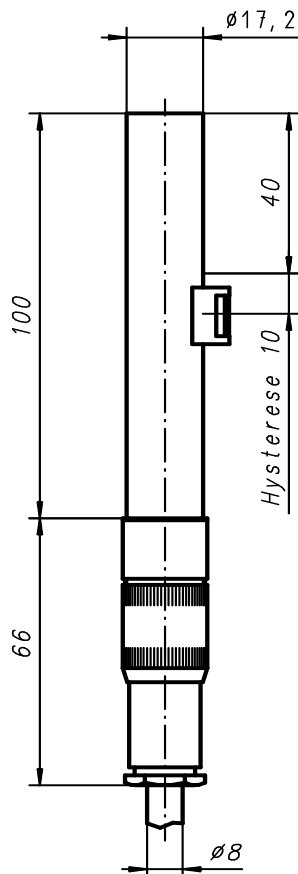
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

**31130-NK**

**(with counter plug, without cable)**

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max. 250V  
max. 1.3A  
max. 80VA  
max. 80W

**Enclosure**

IP67 - plugged and locked

**Material**

Housing: Stainless steel 316 /316L  
Plug connector: Brass, chromium-plated  
Seal: Perbunan (NBR)  
Insert: 3-pole + PE  
Connection: Solder-terminal  
Cable cores: max. 1mm  
Cable diameter: 6...8mm  
Tag label: Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

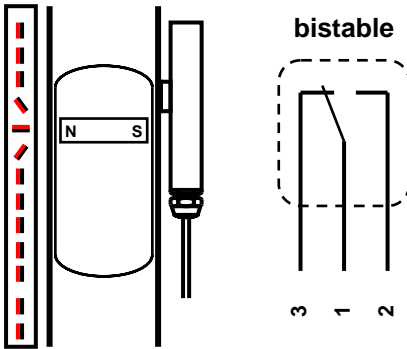
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

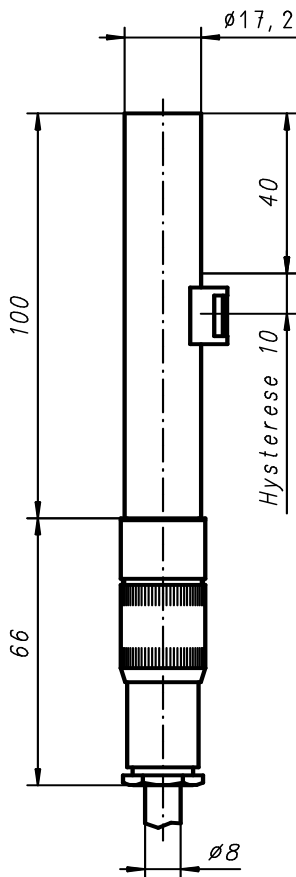
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

**31160-NK**

**(with counter plug, without cable)**

**Switching logic**

**Change over, bistable**

**Contact rating**

max. 230V  
max. 1A  
max. 60VA  
max. 60W

**Enclosure**

IP67 - plugged and locked

**Material**

Housing: Stainless steel 316 /316L  
Plug connector: Brass, chromium-plated  
Insert: Perbunan (NBR)  
Seal: 3-pole + PE  
Connection: Solder-terminal  
Cable cores: max. 1mm  
Cable diameter: 6...8mm  
Tag label: Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

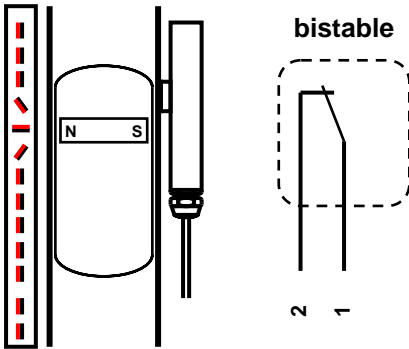
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

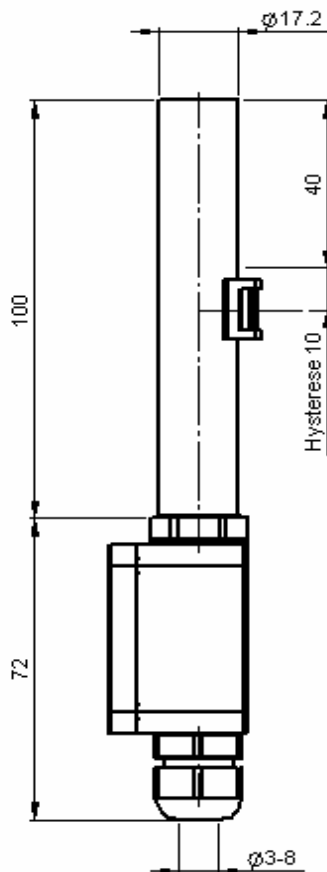
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

**31130-NT**

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max. 250V  
 max. 1.3A  
 max. 80VA  
 max. 80W

**Enclosure**

IP65 - with confirmed installation

**Material**

Housing: Stainless steel 316 /316L  
 Terminal box: Al, DIN 1725, row, 45 x 50 x 30mm  
 Seal: NBR  
 Cable gland: PA6, grey  
 - Insert: NBR  
 Cable cores: max. 4 x 0.5qmm  
 Cable diameter: 3...8mm  
 Tag label: Polyester, yellow, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
 Ambient temperature

Temperature of liquid within the float chamber  
 Temperature of air around the magnetic switch

**Fixation**

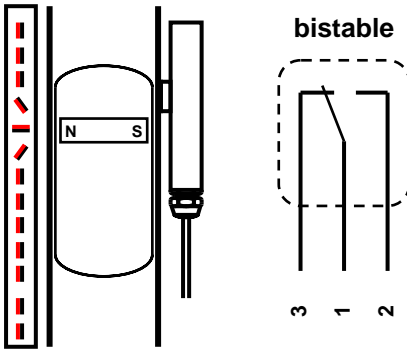
If ordered together with a VLI fixation is included in the delivery  
 If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

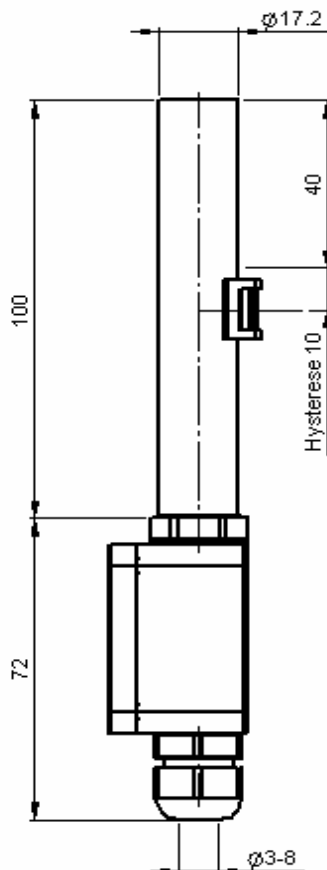
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

**31160-NT**

**Switching logic**

**Change over, bistable**

**Contact rating**

max. 230V  
max. 1A  
max. 60VA  
max. 60W

**Enclosure**

IP65 - with checked installation

**Material**

Housing: Stainless steel 316 /316L  
Terminal box: Al, DIN 1725, row, 45 x 50 x 30mm  
Seal: NBR  
Cable gland: PA6, grey  
- Insert: NBR  
Cable cores: max. 4 x 0.5qmm  
Cable diameter: 3...8mm  
Tag label: Polyester, yellow, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

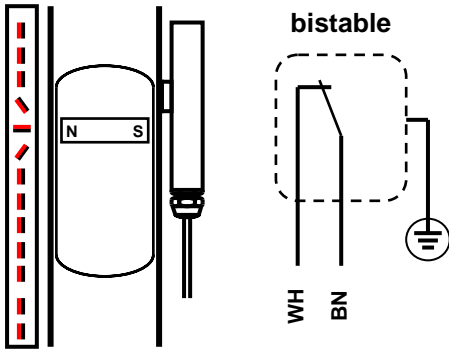
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

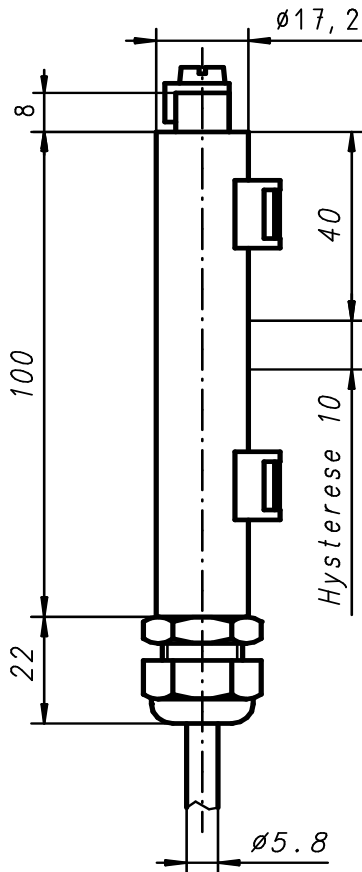
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Fixation**

If ordered together with a VLI fixation is included in the delivery

If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

You will find the currently valid EC-Type-Examination Certificate at our web-site: [www.weka-ag.ch](http://www.weka-ag.ch) -> Support -> Approvals  
 Pay additional attention to them. This device is maintenance-free. Repair work is not allowed.  
 For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

The switch must be operated by a certified energy-limiting device (e.g. Zener barrier) installed in a safe area. Relevant safety guidelines must be followed.

<b>Product code</b>	<b>31130-NI/3</b>	<b>with 3m cable</b>
	<b>31130-NI/5</b>	<b>with 5m cable</b>
	<b>31130-NI/10</b>	<b>with 10m cable</b>
	<b>31130-NI/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max.	250V
max.	1.3A
max.	80VA
max.	80W

**Electrical characteristics**

U <sub>i</sub>	= max.	250V
I <sub>i</sub>	= max.	1A

**Enclosure**

IP68 - 10bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	PA6, blue, 4...8mm
Seal	Perbunan
Cable	LiYCY/EB, blue, Ø 5.8mm (110pF, 0.7µH/r)
Shield	shielded, but not connected
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

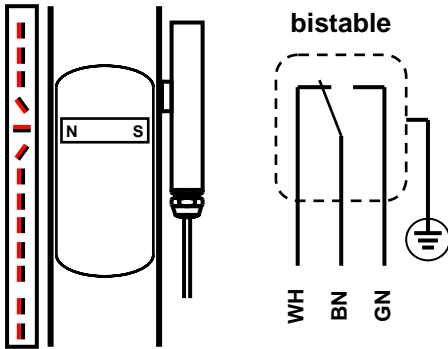
Media temperature	Ambient temperature	Temperature class
-50°C...+150°C	-20°C...+80°C	T3 (200°C)
-50°C...+135°C	-20°C...+80°C	T4 (135°C)
-50°C...+100°C	-20°C...+80°C	T5 (100°C)
-50°C...+85°C	-20°C...+80°C	T6 (85°C)

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch
Temperature class	Specified max. surface temperature

**Grounding**

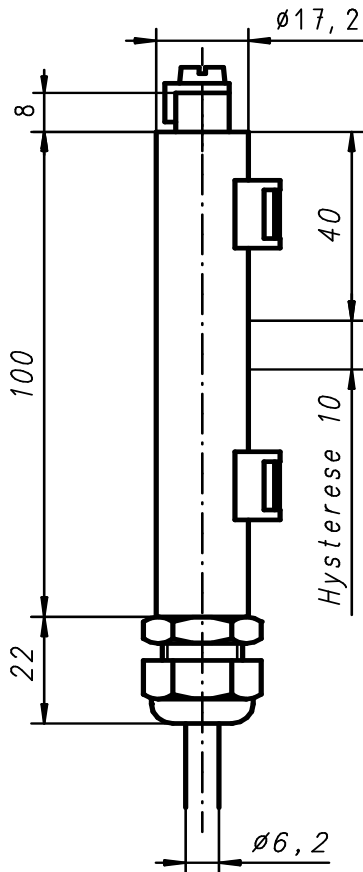
A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.

External electrical connections



- Installed opposite the indication rail
- Cable exit downwards

Dimensions



Fixation

If ordered together with a VLI fixation is included in the delivery

If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

Remarks

You will find the currently valid EC-Type-Examination Certificate at our web-site: [www.weka-ag.ch](http://www.weka-ag.ch) -> Support -> Approvals  
 Pay additional attention to them. This device is maintenance-free. Repair work is not allowed.  
 For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

Function

Magnetic switch for WEKA Visual Level Indicators

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

The switch must be operated by a certified energy-limiting device (e.g. Zener barrier) installed in a safe area. Relevant safety guidelines must be followed.

<b>Product code</b>	<b>31160-NI/3</b>	<b>with 3m cable</b>
	<b>31160-NI/5</b>	<b>with 5m cable</b>
	<b>31160-NI/10</b>	<b>with 10m cable</b>
	<b>31160-NI/20</b>	<b>with 20m cable</b>

Switching logic

Change over, bistable

Contact rating

max.	230V
max.	1A
max.	60VA
max.	60W

Electrical characteristics

U <sub>i</sub>	= max.	250V
I <sub>i</sub>	= max.	1A

Enclosure

IP68 - 10bar (EN 60529)

Material

Housing	Stainless steel 316 /316L
Cable gland	PA6, blue, 4...8mm
Seal	Perbunan
Cable	LiYCY/EB, blue, Ø 6.2mm (110pF, 0.7µH/r)
Shield	shielded, but not connected
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Polyester, silver, black writing

Operating conditions

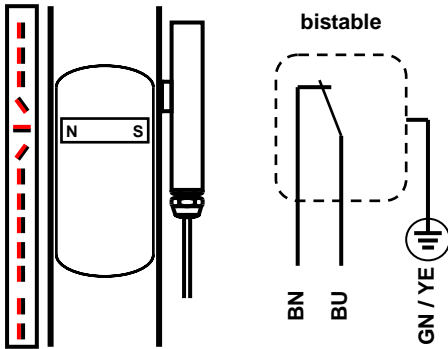
Media temperature	Ambient temperature	Temperature class
-50°C...+150°C	-20°C...+80°C	T3 (200°C)
-50°C...+135°C	-20°C...+80°C	T4 (135°C)
-50°C...+100°C	-20°C...+80°C	T5 (100°C)
-50°C...+85°C	-20°C...+80°C	T6 (85°C)

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch
Temperature class	Specified max. surface temperature

Grounding

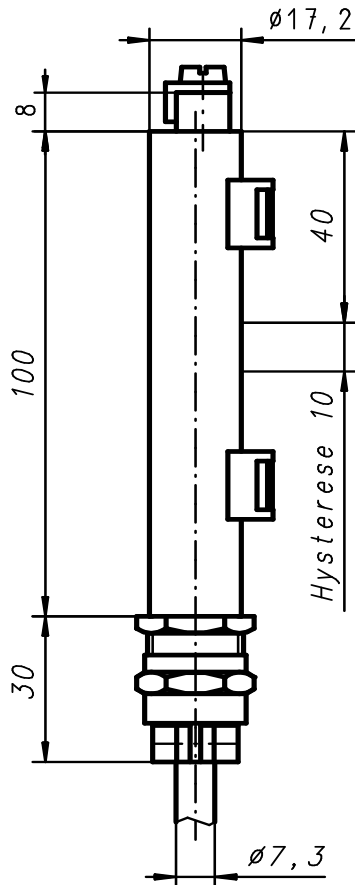
A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.

External electrical connections



- Installed opposite the indication rail
- Cable exit downwards

Dimensions



Function

Magnetic switch for WEKA Visual Level Indicators

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31130-ND/3</b>	<b>with 3m cable</b>
	<b>31130-ND/5</b>	<b>with 5m cable</b>
	<b>31130-ND/10</b>	<b>with 10m cable</b>
	<b>31130-ND/20</b>	<b>with 20m cable</b>

Switching logic

On/off switch, bistable

<b>Contact rating</b>	max.	250V
	max.	1.3A
	max.	80VA
	max.	80W

Enclosure

IP68 (EN 60529)

Material

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 7...9mm
Seal	NBR
Cable	PVC, oil and gasoline resistant, $\varnothing$ 7.3mm
Shield	not shielded
Cable cores	3 x 0,75mm <sup>2</sup> (2 + PE)
Core colours	BN, BU, GN/YE
Tag label	Polyester, silver, black writing

Operating conditions

Media temperature	Ambient temperature	Temperature class
-50°C...+150°C	-20°C...+80°C	T3 (200°C)
-50°C...+135°C	-20°C...+80°C	T4 (135°C)
-50°C...+100°C	-20°C...+80°C	T5 (100°C)
-50°C...+85°C	-20°C...+80°C	T6 (85°C)

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch
Temperature class	Specified max. surface temperature

Grounding

A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.

Fixation

If ordered together with a VLI fixation is included in the delivery

If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

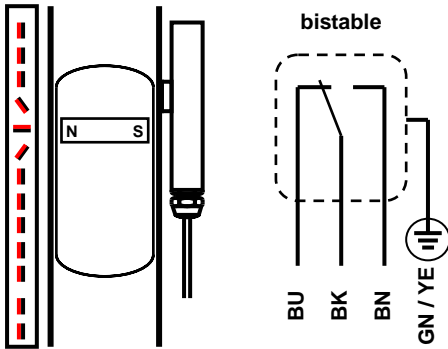
Remarks

You will find the currently valid EC-Type-Examination Certificate at our web-site: [www.weka-ag.ch](http://www.weka-ag.ch) -> Support -> Approvals

Pay additional attention to them. This device is maintenance-free. Repair work is not allowed.

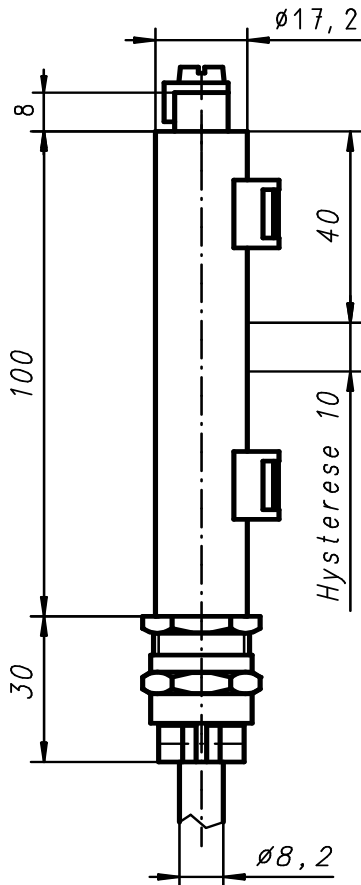
For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Fixation**

If ordered together with a VLI fixation is included in the delivery

If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

You will find the currently valid EC-Type-Examination Certificate at our web-site: [www.weka-ag.ch](http://www.weka-ag.ch) -> Support -> Approvals  
 Pay additional attention to them. This device is maintenance-free. Repair work is not allowed.  
 For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31160-ND/3</b>	<b>with 3m cable</b>
	<b>31160-ND/5</b>	<b>with 5m cable</b>
	<b>31160-ND/10</b>	<b>with 10m cable</b>
	<b>31160-ND/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

<b>Contact rating</b>	max.	230V
	max.	1A
	max.	60VA
	max.	60W

**Enclosure**

IP68 (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 7...9mm
Seal	NBR
Cable	PVC, oil and gasoline resistant, $\varnothing$ 8.2mm
Shield	not shielded
Cable cores	4 x 0,75mm <sup>2</sup> (3 + PE)
Core colours	BN, BU, BK, GN/YE
Tag label	Polyester, silver, black writing

**Operating conditions**

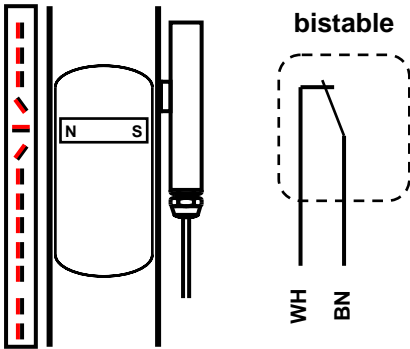
Media temperature	Ambient temperature	Temperature class
-50°C...+150°C	-20°C...+80°C	T3 (200°C)
-50°C...+135°C	-20°C...+80°C	T4 (135°C)
-50°C...+100°C	-20°C...+80°C	T5 (100°C)
-50°C...+85°C	-20°C...+80°C	T6 (85°C)

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch
Temperature class	Specified max. surface temperature

**Grounding**

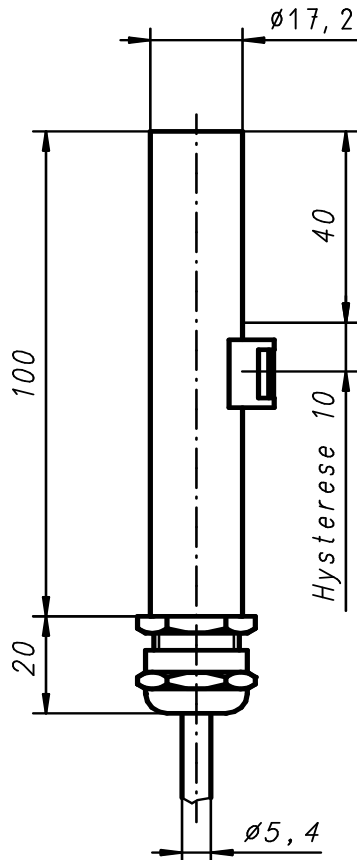
A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

**Product code**

<b>31130-NM/3</b>	<b>with 3m cable</b>
<b>31130-NM/5</b>	<b>with 5m cable</b>
<b>31130-NM/10</b>	<b>with 10m cable</b>
<b>31130-NM/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

**Contact rating**

max.	250V
max.	1.3A
max.	80VA
max.	80W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 5...10mm
Seal	Perbunan (NBR)
Cable	LiYY, grey, $\phi$ 5.4mm
Shield	not shielded
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

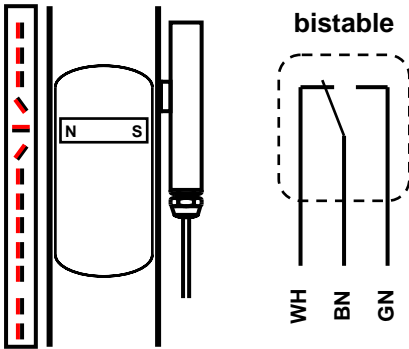
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

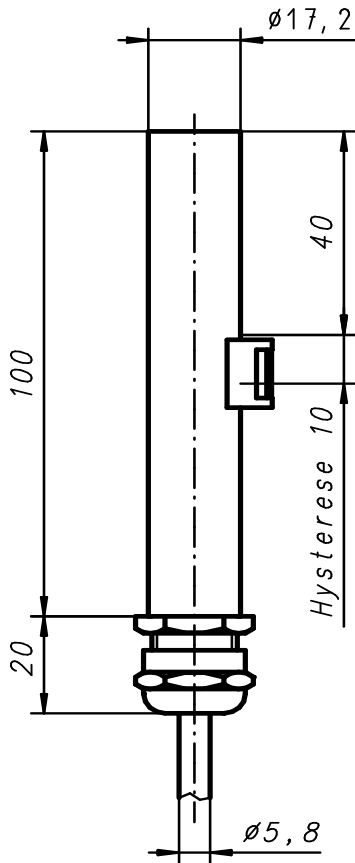
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31160-NM/3</b>	<b>with 3m cable</b>
	<b>31160-NM/5</b>	<b>with 5m cable</b>
	<b>31160-NM/10</b>	<b>with 10m cable</b>
	<b>31160-NM/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

<b>Contact rating</b>	max.	230V
	max.	1A
	max.	60VA
	max.	60W

**Enclosure**

IP68 - 5bar (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 5...10mm
Seal	Perbunan (NBR)
Cable	LiYY, grey, $\phi$ 5.8mm
Shield	not shielded
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

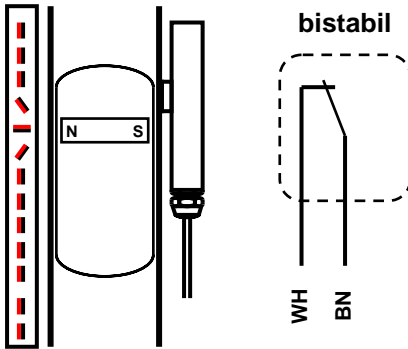
If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

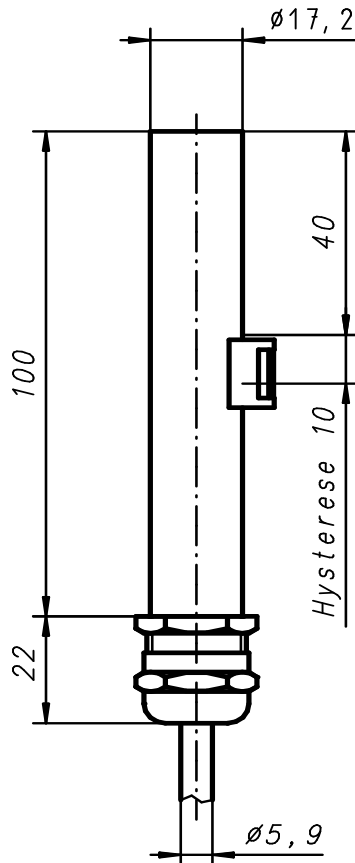
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31130-NS/3</b>	<b>with 3m cable</b>
	<b>31130-NS/5</b>	<b>with 5m cable</b>
	<b>31130-NS/10</b>	<b>with 10m cable</b>
	<b>31130-NS/20</b>	<b>with 20m cable</b>

**Switching logic**

**On/off switch, bistable**

<b>Contact rating</b>	max.	250V
	max.	1.3A
	max.	80VA
	max.	80W

**Enclosure**

IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Stainless steel, 1.4436, 5...10mm
Seal	FPM
Cable	Silicone, Si-SL-O, rot, Ø 5.9mm
Shield	not shielded
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

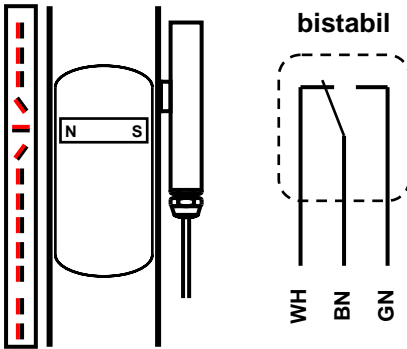
If ordered together with a VLI fixation is included in the delivery  
 If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

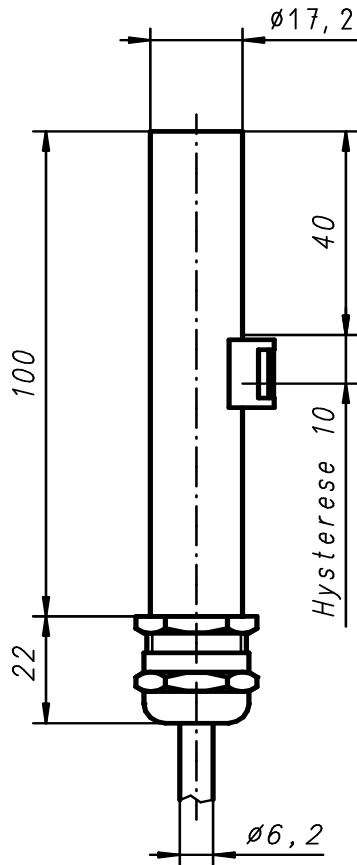
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Please refer to the safety guidelines.

<b>Product code</b>	<b>31160-NS/3</b>	<b>with 3m cable</b>
	<b>31160-NS/5</b>	<b>with 5m cable</b>
	<b>31160-NS/10</b>	<b>with 10m cable</b>
	<b>31160-NS/20</b>	<b>with 20m cable</b>

**Switching logic**

**Change over, bistable**

<b>Contact rating</b>	max.	230V
	max.	1A
	max.	60VA
	max.	60W

**Enclosure**

IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Stainless steel, 1.4436, 5...10mm
Seal	FPM
Cable	Silicone, Si-SL-O, rot, $\phi$ 6.2mm
Shield	not shielded
Cable cores	3 x 0,75mm <sup>2</sup>
Core colours	WH, BN, GN
Tag label	Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery

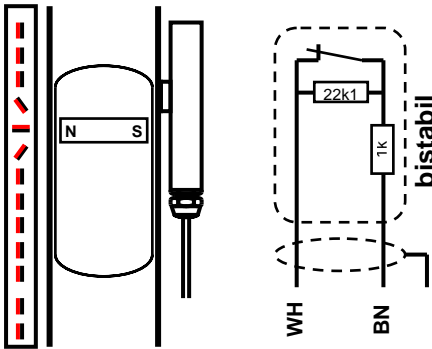
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

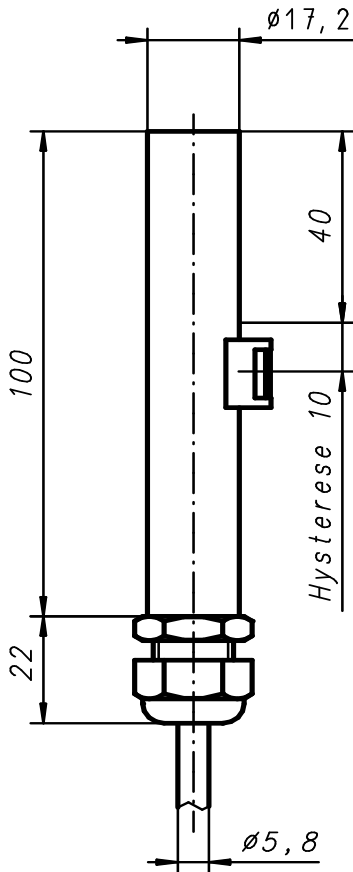
The switch is maintenance free.

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for  
WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Monitoring of short or open circuits is possible through the continuously resistor network from the "Namur- Switch" circuit.

**Product code**

- 31130-NA-NAM/3** with 3m cable
- 31130-NA-NAM/5** with 5m cable
- 31130-NA-NAM/10** with 10m cable
- 31130-NA-NAM/20** with 20m cable

**Switching logic**

**On/off switch, bistable**  
with Namur- Resistor network

**Contact rating**

- $U_i$  max. 10.6V
- $I_i$  max. 60mA
- $P_i$  max. 200mW

**Enclosure**

IP68 - 10bar (EN 60529)

**Material**

- Housing: Stainless steel 316 /316L
- Cable gland: PA6, blue, 4...8mm
- Seal: Perbunan
- Cable: LiYCY/EB, blue, Ø5.8mm (110pF, 0.7µH/m)
- Shield: shielded, but not connected
- Cable cores: 2 x 0,75mm<sup>2</sup>
- Core colours: WH, BN
- Tag label: Polyester, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+150°C	-20°C...+80°C

- Media temperature
- Ambient temperature

- Temperature of liquid within the float chamber
- Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

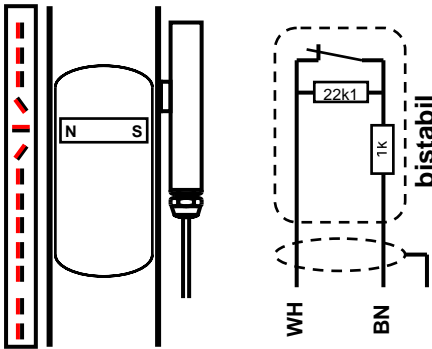
- for tube diameter 30...54mm Article no. 80648
- for tube diameter 57...80mm Article no. 84043

**Remarks**

Acc. EN50020, paragraph 5.4, the switch counts as simple operating apparatus (EEx ia IIC) and may be used in explosion hazard area. It is not type approved according rules 94/9/EC.

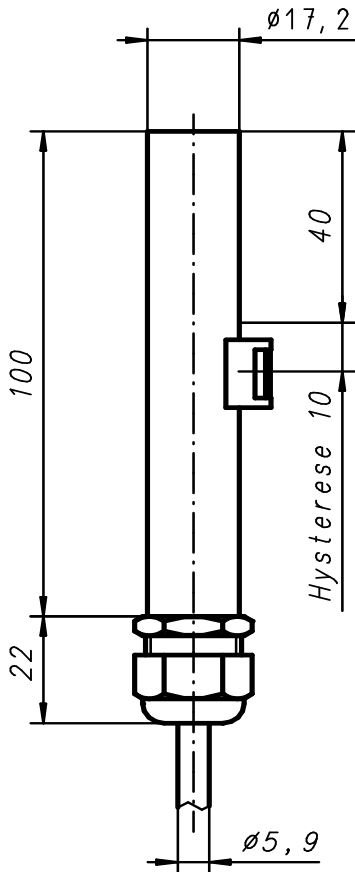
For the evaluation of the NAMUR circuit and a complimentary intrinsically safe operating apparatus (Eex ia IIC) we recommend a switch amplifier of the company "Stahl", i.e. Type 9350-...-..

**External electrical connections**



- Installed opposite the indication rail
- Cable exit downwards

**Dimensions**



**Function**

**Magnetic switch for WEKA Visual Level Indicators**

The switch module is attached to the float chamber, diametrically opposite the indication rail, with cable-exit below (see data sheet 20010501). The float magnet activates the reed contact when the liquid in the float chamber reaches that level. The switching logic is reversible by installing the switch module adjacent to the indication rail, or alternatively by inverting the switch module with cable-exit upwards.

Monitoring of short or open circuits is possible through the continuously resistor network from the "Namur- Switch" circuit.

**Product code**

- 31130-NW-NAM/3** with 3m cable
- 31130-NW-NAM/5** with 5m cable
- 31130-NW-NAM/10** with 10m cable
- 31130-NW-NAM/20** with 20m cable

**Switching logic**

**On/off switch, bistable**  
with Namur- Resistor network

**Contact rating**

$U_i$	max.	10.6V
$I_i$	max.	60mA
$P_i$	max.	200mW

**Enclosure**

IP68 - (EN 60529)

**Material**

Housing	Stainless steel 316 /316L
Cable gland	Brass, nickel-plated, 5...10mm
Seal	FKM / Fluoroelastomer
Cable	Silicone, Si-SL-O, rot, Ø 5.9mm
Shield	not shielded
Cable cores	2 x 0,75mm <sup>2</sup>
Core colours	WH, BN
Tag label	Aluminum, silver, black writing

**Operating conditions**

Media temperature	Ambient temperature
-50°C...+250°C	-20°C...+80°C

Media temperature  
Ambient temperature

Temperature of liquid within the float chamber  
Temperature of air around the magnetic switch

**Fixation**

If ordered together with a VLI fixation is included in the delivery  
If fixation is ordered separately please indicate tube diameter

for tube diameter	30...54mm	Article no.	80648
for tube diameter	57...80mm	Article no.	84043

**Remarks**

Acc. EN50020, paragraph 5.4, the switch counts as simple operating apparatus (EEx ia IIC) and may be used in explosion hazard area. It is not type approved according rules 94/9/EC.

For the evaluation of the NAMUR circuit and a complimentary intrinsically safe operating apparatus (Eex ia IIC) we recommend a switch amplifier of the company "Stahl", i.e. Type 9350-...-..