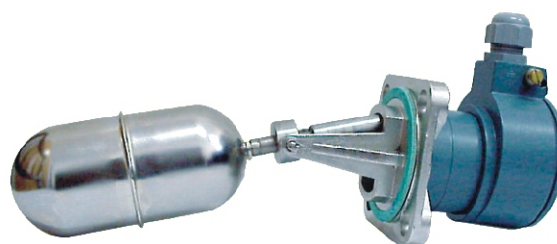


LEVEL SWITCHES IN STANDARD VERSION (WITHOUT MARINE APPROVALS) ARE DESIGNED FOR SIGNALING OF LIQUID LIMIT LEVELS OR TWO-TERM LIQUID LEVEL CONTROL IN OPEN AND CLOSED PRESSURIZED TANKS, IN NON-EXPLOSIVE ATMOSPHERE. LEVEL SWITCHES CAN OPERATE IN AGGRESSIVE LIQUIDS NOT REACTING ON 1H18N9T STEEL (321 SS) AND CAST STEEL TYPE 1.4581 ACC. TO EN.



- material of dry parts - Al alloy
- material of wet parts - 1H18N9T (321 ss) and cast steel type 1.4581 acc. to EN
- top and side mounted
- nominal pressure 4 Mpa
- curve pipe type “┐” and “┐”

TECHNICAL DATA

Parameters	ERH-01-04	ERH-02-04	ERH-03-04	ERH-04-04
Switching hysteresis	10; 20; 30mm	10; 20; 30mm	100...400mm 50...250mm	32...1350mm
Repeatability	±15%	±15%	±15%; ±2%	±15%; ±2%
Mass	1,8 kg	2.0 kg	2.1 kg	3.0 kg
Static pressure of the medium	4 MPa			1.6 MPa
Permissible temperature of the medium	250°C	200°C	250°C	
Ambient temperature	-25°C...+70°C			
Casing protection degree	IP 66			
Minimum liquid density	0.6 x 10 ⁻³ kg/cm ³			
Application	In clear fluids without impurities of constant suspensions	In impurities fluids of constant suspensions	In clear fluids without impurities with constant suspensions	In clear and impurities fluids of constant suspensions

ELECTRIC PARAMETERS OF MICROSWITCH:

Rated switching voltage U_e

AC-15 400V; 50...60Hz

DC-13 220V=

Rated switching currents:

I_e/AC 15 U_e 400V; 50...60Hz AC1 10A

I_e/DC 13 U_e 220V; 0,6A

Switching durability:

AC-15 AC1-3,0x10⁵

DC-13 0,3x10⁵

Minimal voltage and switching current: 10V; 20mA

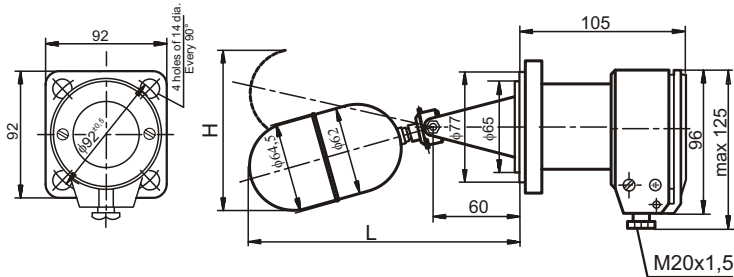
Cross sections of connecting wires - for single-core wires: 1...2.5 sq. mm

- for multile-core wires: 0.75...1.5 sq. mm

DIMENSIONED DRAWINGS

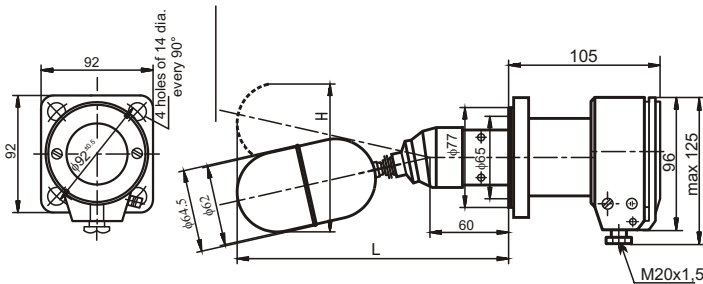
ERH-01-04

Symbol	Hmm	Lmm	Hysteresis "h"
- 1	120	190	10
- 2	140	230	20
- 3	150	255	30



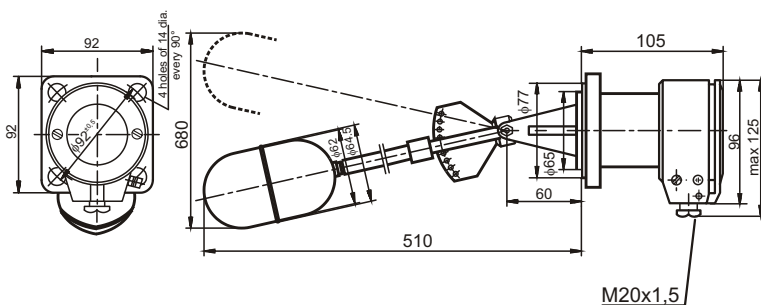
ERH-02-04

Symbol	Hmm	Lmm	Hysteresis "h"
- 1	120	190	10
- 2	140	230	20
- 3	150	255	30

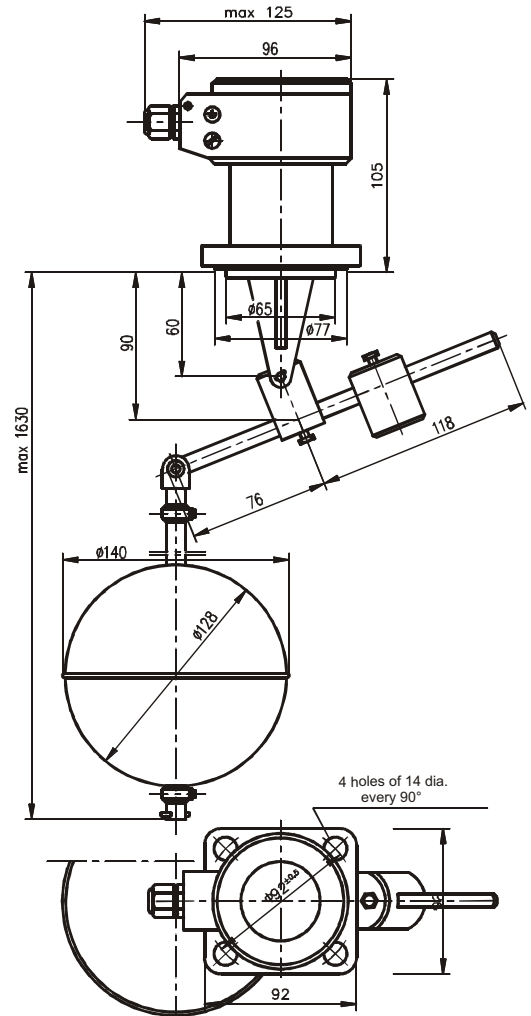


ERH-03-04

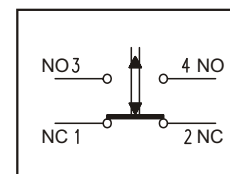
Symbol	Hmm	Lmm	Hysteresis "h"
- 1	680	510	from 100 to 400
- 2	450	380	from 50 to 250



ERH-04-04



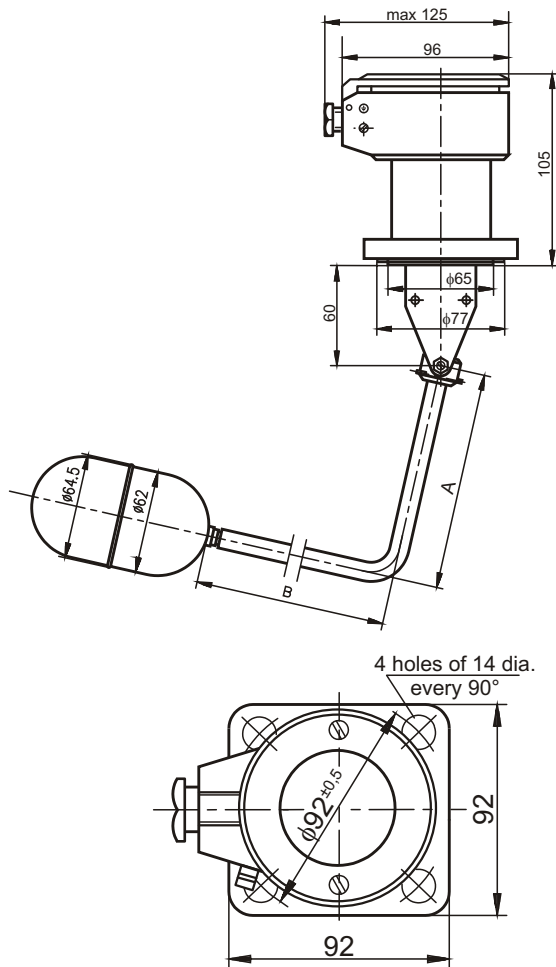
**Electric circuit diagram
of level switches**



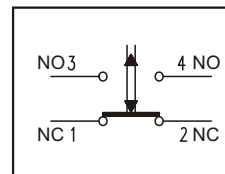
NC - closing contact
NO - opening contac

ERH-01-04-4-1

Level switch with curve pipe
at dimension A=185, B=80

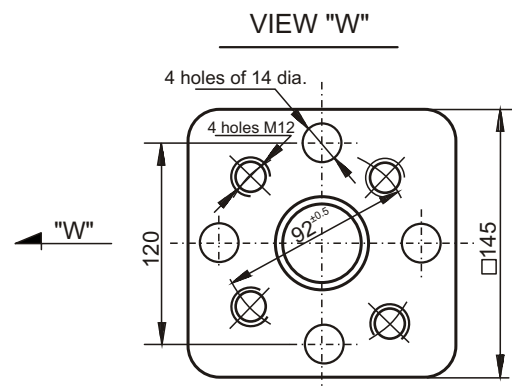
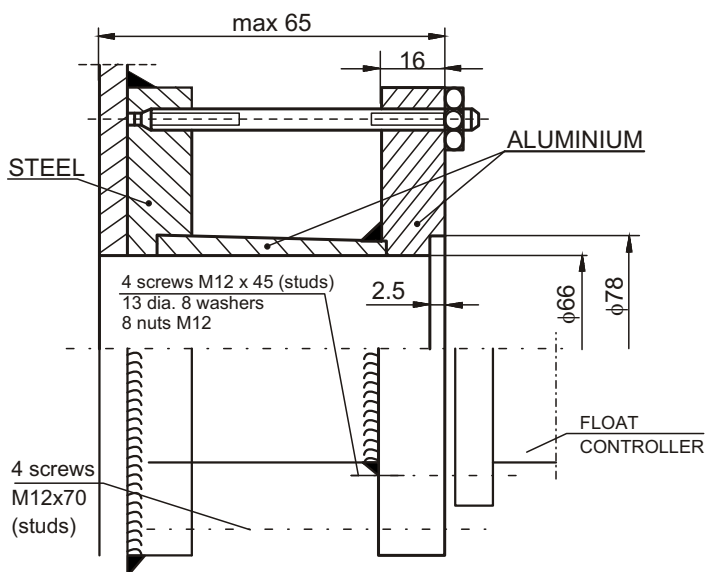


**Electric circuit diagram
of level switches**



NC - closing contact
NO - opening contact

EXAMPLE OF CONNECTING STUB PIPE



ORDERING OF LEVEL SWITCH TYPE ERH-01-04

ERH-01-04-	Level switch																						
	<table> <tr> <th>CODE1</th><th>SWITCHING HYSTERESIS (*)</th></tr> <tr> <td>-1</td><td>Switching hysteresis h=10mm</td></tr> <tr> <td>-2</td><td>Switching hysteresis h=20mm</td></tr> <tr> <td>-3</td><td>Switching hysteresis h=30mm</td></tr> <tr> <td>-4-0</td><td>Length of arm A=125mm B=125mm</td></tr> <tr> <td>-4-1</td><td>Length of arm A=185mm B=80mm</td></tr> <tr> <td>-4-2</td><td>Length of arm A=250mm B=125mm</td></tr> <tr> <td>-4-3</td><td>Length of arm A=140mm B=120mm</td></tr> <tr> <td>-4-4</td><td>Length of arm A=100mm B=120mm</td></tr> <tr> <td>-4-5</td><td>Length of arm A=120mm B=80mm</td></tr> <tr> <td>-4-6</td><td>Length of arm A=150mm B=80mm</td></tr> </table>	CODE1	SWITCHING HYSTERESIS (*)	-1	Switching hysteresis h=10mm	-2	Switching hysteresis h=20mm	-3	Switching hysteresis h=30mm	-4-0	Length of arm A=125mm B=125mm	-4-1	Length of arm A=185mm B=80mm	-4-2	Length of arm A=250mm B=125mm	-4-3	Length of arm A=140mm B=120mm	-4-4	Length of arm A=100mm B=120mm	-4-5	Length of arm A=120mm B=80mm	-4-6	Length of arm A=150mm B=80mm
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ERH-01-04	- 1 EXAMPLE OF LEVEL SWITCH TYPE DENOTATION																						

(*) other arm lengths available on client request (curve pipe type “” and “”)

ORDERING OF LEVEL SWITCH TYPE ERH-02-04

ERH-02-04-	Level switch								
	<table> <tr> <th>CODE1</th><th>SWITCHING HYSTERESIS</th></tr> <tr> <td>-1</td><td>Switching hysteresis h=10mm</td></tr> <tr> <td>-2</td><td>Switching hysteresis h=20mm</td></tr> <tr> <td>-3</td><td>Switching hysteresis h=30mm</td></tr> </table>	CODE1	SWITCHING HYSTERESIS	-1	Switching hysteresis h=10mm	-2	Switching hysteresis h=20mm	-3	Switching hysteresis h=30mm
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-2	Switching hysteresis h=20mm								
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ERH-02-04	- 1 EXAMPLE OF LEVEL SWITCH TYPE DENOTATION								

ORDERING OF LEVEL SWITCH TYPE ERH-03-04

ERH-03-04-	Level switch						
	<table> <tr> <th>CODE1</th><th>SETTING SWITCHING HYSTERESIS</th></tr> <tr> <td>-1</td><td>Setting switching hysteresis - min 100mm max 400mm</td></tr> <tr> <td>-2</td><td>Setting switching hysteresis - min 50mm max 250mm</td></tr> </table>	CODE1	SETTING SWITCHING HYSTERESIS	-1	Setting switching hysteresis - min 100mm max 400mm	-2	Setting switching hysteresis - min 50mm max 250mm
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-1	Setting switching hysteresis - min 100mm max 400mm						
-2	Setting switching hysteresis - min 50mm max 250mm						
ERH-03-04	- 1 EXAMPLE OF LEVEL SWITCH TYPE DENOTATION						

ORDERING OF LEVEL SWITCH TYPE ERH-04-04

ERH-04-04	Level switch
ERH-04-04	LEVEL SWITCH TYPE DENOTATION

Example of ordering: level switch with switching hysteresis 10mm ERH-01-04-1