with MIN level electrical sensor



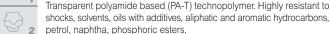






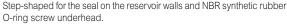


MATERIAL



Avoid contact with alcohol or detergents containing alcohol.

SCREWS, NUTS AND WASHERS































In laboratory tests carried out with mineral oil type CB68 (according to ISO 3498) at 23°C for a limited period of time, the weld stood up to: 18 bar (HCV.76), 18 bar (HCV.127) and 12 bar (HCV.254).

For use with other fluids and under different pressure and temperature conditions, please contact ELESA Technical Department.

In any case we suggest to verify the suitability of the product under the

SPECIAL EXECUTIONS ON REQUEST

- Level indicators with stainless steel screws, nuts and washers.
- Level indicators for use with fluids containing alcohol.
- UV resistant transparent technopolymer level indicators.





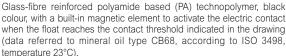






Suggested roughness of the packing ring application surface $Ra = 3 \mu m$.





Floating is ensured by fluids with densities higher than 800 kg/m³.



Watertight in glass-fibre reinforced polyamide based (PA) technopolymer, black colour, with a built-in relay (reed) with two conductors (NO and NC versions) at the output or three connectors (SW version). For a correct assembly see Warnings (on page 1227).

SWIVELLING CONNECTOR

With built-in cable gland and contact holder. Front or axial output (high or low) ensuring protection against water sprays (protection class IP 65 according to table EN 60529 on page A-19).

CONTRAST SCREEN

White lacquered aluminium. The housing, in the appropriate external rear slot, guarantees the best protection from direct contact with fluid. It can be taken out from the inclined side, before assembly to allow the insertion of level lines or words.

STANDARD EXECUTIONS

- HCV-E-NO: with electric contact normally open (NO).
- HCV-E-NC: with electric contact normally closed (NC).
- HCV-E-SW: with change-over electrical contact (SW).

MAXIMUM CONTINUOUS WORKING TEMPERATURE 90°C (with oil).

FEATURES AND PERFORMANCES

The column level indicator HCV-E, in addition to the visual control, generates an electric signal when the oil level drops to a minimum. Ultrasound welding to guarantee a perfect seal.

Thanks to the side output of the connector, HCV-E level indicator allows to minimise the level of intervention of the sensor.

Maximum fluid level visibility even from side positions.

Lens effect for a better visibility of the fluid level.

actual working conditions.

- Level indicators HCV.76 with screws M12.



ELESA Original design

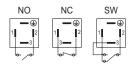
Electrical features	MIN level sensor						
Power supply	AC/DC						
	NO normally open						
Electric contacts	NC normally closed						
	SW change-over contact						
	NO: 140 Vac, 200 Vdc						
Maximum applicable voltage	NC: 140Vac, 150 Vdc						
	SW: 140Vac, 150 Vdc						
Maximum switching current	1 A						
	NO: 1.2A						
Maximum current	NC: 2A						
	SW: 2A						
	NO: 10 Va						
Maximum commutable power	NC: 20 Va						
	SW: 20 Va						
Cable gland	Pg 7 (for cables in sheath with						
Sub-15 glarid	Ø 6 or 7 mm)						
Conductors cross-section	Max. 1.5 mm ²						
Do not mount this indicator in proximity to magnetic fields.							



Accessories for hydraulic systems

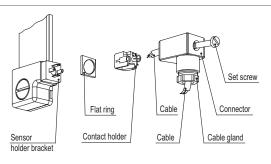
FUNCTIONING OF THE MIN LEVEL ELECTRICAL SENSOR

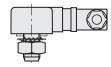
- HCV-E-NO: the electrical contact closes on reaching the minimum level.
- HCV-E-NC: the electrical contact is opened when it reaches the minimum level.
- HCV-E-SW (change-over electrical contact): the electrical contact switches between the two terminals.

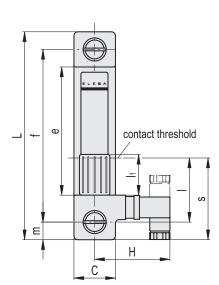


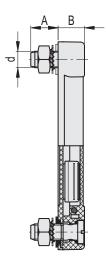
CONNECTOR ASSEMBLY INSTRUCTIONS

- Remove the connector from the indicator by unscrewing the set screw placed on the connector, take the contact holders out and loosen the cable gland.
- Slip on the cable into the connector (standard connector) and connect the wires to the terminals 1 and 2 (NO and NC version) or 1,2 and 3 (SW version) of the contact holder.
- Assemble by pressing the contact holder into the connector in the required position.
- Screw the connectors to the indicator and then tighten the cable glands.











Conversion Table									
1 111111 - 0.039 111011									
	▼								
f									
mm	inch								
76	2.99								
127	5.00								

10.00

Description

HCV.76-E-NO-M10 HCV.76-E-NC-M10

HCV.76-E-SW-M10 HCV.127-E-NO-M12

HCV.127-E-NC-M12

HCV.127-E-SW-M12

HCV.254-E-NO-M12

HCV.254-E-NC-M12

254

11051

11052 11053

11131 11132

11133

11135

11136

'	u	А	Ь	C	П	L	е	'	- 11	111	5	u -0.2	I ±0.2	[Nm]	۵۵
76	M10	20	19.5	30.5	55	102	43.5	40	20	13	53	10.5	76	12	133
76	M10	20	19.5	30.5	55	102	43.5	40	20	13	53	10.5	76	12	133
76	M10	20	19.5	30.5	55	102	43.5	40	20	13	53	10.5	76	12	133
127	M12	20	19.5	30.5	55	153	97	50	30	13	63	12.5	127	12	153
127	M12	20	19.5	30.5	55	153	97	50	30	13	63	12.5	127	12	153
127	M12	20	19.5	30.5	55	153	97	50	30	13	63	12.5	127	12	153

224

224

224

50

50 30

50

30

30

13

13 63

13

63

11137 HCV.254-E-SW-M12 254 M12 20 19.5 30.5 # Maximum tightening torque.

254

254 M12

3/2020 **EES**

12

12

180

180

180































Accessories for hydraulic systems

1109

12.5

12.5

12.5

254

254

M12

20

20

19.5 30.5

19.5 30.5

55

55

55

280

280

280