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MATERIAL

Transparent polyamide based (PA-T) technopolymer. Highly resistant to shocks, solvents, oils with additives, aliphatic and aromatic hydrocarbons, petrol, naphtha, phosphoric esters.
Avoid contact with alcohol or detergents containing alcohol.

SCREWS, NUTS AND WASHERS

Zinc-plated steel.

PACKING RINGS

Step-shaped for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underhead.
Suggested roughness of the packing ring application surface Ra = 3 µm.

FLOAT

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, with a built-in magnetic element to activate the electric contact when the float reaches the contact threshold located at about 50 mm above the axis of the lower screw (data referred to mineral oil type CB68, according to ISO 3498, temperature 23°C).

SENSOR BRACKET

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 1789).

SWIVELLING CONNECTOR

With built-in cable gland and contact holders. Front or side output (right or left) including protection against water sprays (protection class IP 65 according to EN 60529 on page A-18).

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

MAXIMUM CONTINUOUS WORKING TEMPERATURE

90°C (with oil).

SPECIAL EXECUTIONS ON REQUEST

- Level indicators with stainless steel screws, nuts and washers.
- Level indicators HCV.76 with screws M12.
- Level indicators for use with fluids containing alcohol.
- UV resistant transparent technopolymer level indicators.

FEATURES AND PERFORMANCES

The column level indicator HCV-E-AX, 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. Maximum fluid level visibility even from side positions. Lens effect for a better visibility of the fluid level.

TECHNICAL DATA

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.

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 actual working conditions.

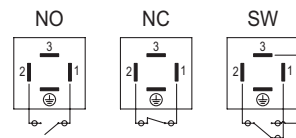


ELESa Original design

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

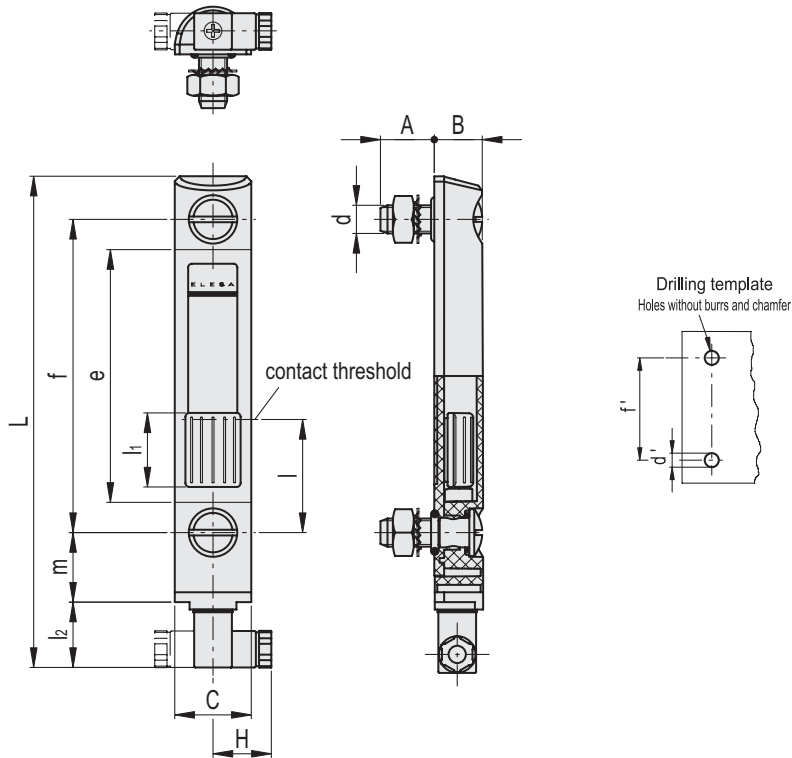
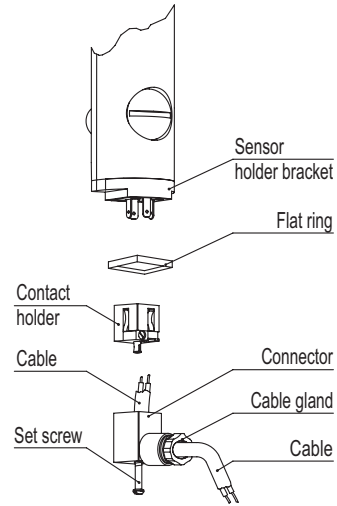
FUNCTIONING OF THE MIN LEVEL ELECTRICAL SENSOR

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



CONNECTOR ASSEMBLY INSTRUCTIONS

1. 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.
2. 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.
3. Assemble by pressing the contact holder into the connector in the required position.
4. Screw the connectors to the indicator and then tighten the cable glands.



Conversion Table	
1 mm = 0.039 inch	
f	
mm	inch
127	5.00

METRIC

Code	Description	f	d	A	B	C	H	L	e	l	l1	l2	m	d'-0.2	f'±0.2	C# [Nm]
11181	HCV.127-E-AX-NO-M12	127	M12	21.8	20	31	25.5	201.5	97	50	30	29	28	12.5	127	12
11182	HCV.127-E-AX-NC-M12	127	M12	21.8	20	31	25.5	201.5	97	50	30	29	28	12.5	127	12
11183	HCV.127-E-AX-SW-M12	127	M12	21.8	20	31	25.5	201.5	97	50	30	29	28	12.5	127	12

Maximum tightening torque.

