with MIN level electrical sensor











### **MATERIAL**

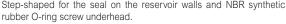


Avoid contact with alcohol or detergents containing alcohol.

# SCREWS, NUTS AND WASHERS

Zinc-plated steel.

### PACKING RINGS



Transparent polyamide based (PA-T) technopolymer. Highly resistant to shocks, solvents, oils with additives, aliphatic and aromatic hydrocarbons,

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



























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

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.

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.





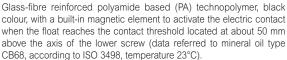






# petrol, naphtha, phosphoric esters.





# 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

FEATURES AND PERFORMANCES

- Level indicators with stainless steel screws, nuts and washers.
- Level indicators HCV.76 with screws M12.

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.

- Level indicators for use with fluids containing alcohol.
- UV resistant transparent technopolymer level indicators.

# FUNCTIONING OF THE MIN LEVEL ELECTRICAL SENSOR

- HCV-E-AX-NO: the electrical contact closes on reaching the minimum
- 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.









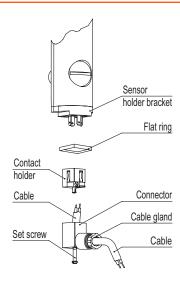
ELESA Original design

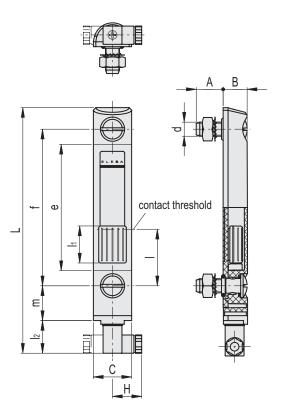
Electrical features	MIN level sensor						
Power supply	AC/DC						
	NO normally open						
Electric contacts	NC normally closed						
	SW change-over contact						
	NO: 140 Vac, 200 Vdc						
Maximum applicable voltage	NC: 140Vac, 150 Vdc						
	SW: 140Vac, 150 Vdc						
Maximum switching current	1 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 Ø						
Cable gland	6 or 7 mm)						
Conductors cross-section	Max. 1.5 mm2						
Do not mount this indicator in	n proximity to magnetic fields.						

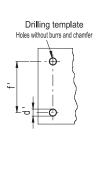
Accessories for hydraulic systems

# 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.
- 3. 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 mm = 0.039 inch								
f								
mm	inch							
127	5.00							

		<b>▼</b>											METRIC				
Code	Description	f	d	Α	В	С	Н	L	е	I	l1	12	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.

