Column level indicators

with MIN level electrical sensor















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

SENSOR BRACKET

SWIVELLING CONNECTOR

insertion of level lines or words. STANDARD EXECUTIONS

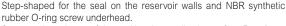
CONTRAST SCREEN

according to EN 60529 on page A-19).

SPECIAL EXECUTIONS ON REQUEST

FEATURES AND PERFORMANCES

Lens effect for a better visibility of the fluid level.



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

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

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).

With built-in cable gland and contact holders. Front or side output (right or left) including protection against water sprays (protection class IP 65

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

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

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

CB68, according to ISO 3498, temperature 23°C).



























Ultrasound welding to guarantee a perfect seal. Maximum fluid level visibility even from side positions.

90°C (with oil).

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

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.













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							
	6 or 7 mm)							
Conductors cross-section	Max. 1.5 mm2							
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
- 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.



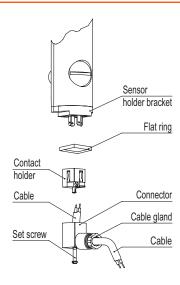


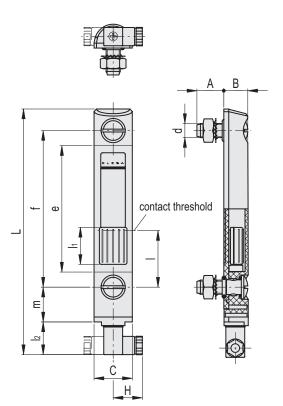


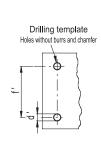
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CONNECTOR ASSEMBLY INSTRUCTIONS

- 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						
V						
f						
mm	inch					
127	5.00					

		\blacksquare													ME	IRIC
Code	Description	f	d	Α	В	С	Н	L	е	ı	I1	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.





































Accessories for hydraulic systems