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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.

### SCREW, NUTS AND WASHERS

Zinc-plated steel.

### PACKING RINGS

NBR synthetic rubber O-Ring.

Suggested roughness of the packing ring application surface Ra = 3 µm.

### MAX TEMPERATURE ELECTRICAL SENSOR (80°C)

Zinc-plated screw with built-in sensor.

Temperature of intervention is 80°C.

For a correct assembly see Warnings (see page 1789).

### SWIVELLING TWO-PIN CONNECTOR

With built-in cable gland and contact holder. Front or side output (right or left) including protection against water sprays (protection class IP 65 according to EN 60529 see page A-18) that can be increased during installation with the necessary adjustments. Flat NBR synthetic rubber packing rings.

### 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

- **HCX-ST-NO**: with electrical contact normally open.
- **HCX-ST-NC**: with electrical contact normally closed.

### MOUNTING

When fitting is not possible from the inside of the reservoir and the walls are not thick enough, the screws can be used together with Fast Mounting Kit (see page 1773).

### MAXIMUM CONTINUOUS WORKING TEMPERATURE

90°C (with oil).

### FEATURES AND PERFORMANCES

This column level indicator generates an electric signal when the temperature reaches the pre-set degrees (80°C).

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 and temperature.

### 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 (HCX.127-ST) 12 bar (HCX.254-ST).

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.

### SPECIAL EXECUTIONS ON REQUEST

- Level indicators for use with fluids containing alcohol or with hot water.
- UV resistant transparent technopolymer indicators.
- Temperature electrical sensor with pre-set temperatures different from 80°C.
- Indicators with two red ball-shaped floats.

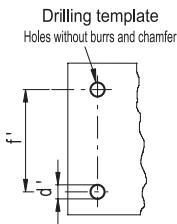
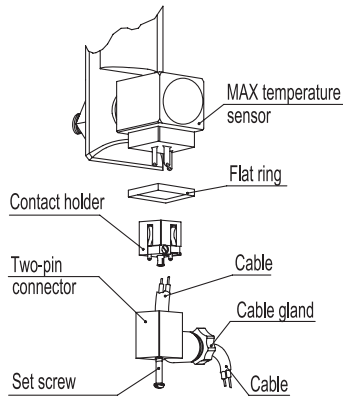
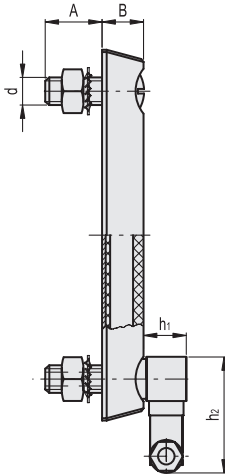
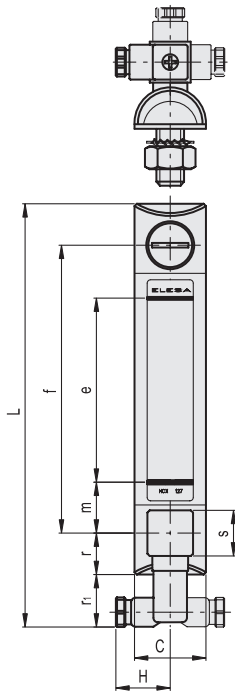
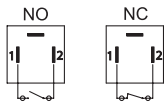


ELESa Original design

FUNCTIONING

- HCX-ST-NO with electrical contact normally open.  
Electrical temperature sensor: the electrical circuit is closed when the pre-set temperature at 80°C is reached.  
- HCX-ST-NC with electrical contacts normally closed.  
Electrical temperature sensor: the electrical circuit is open when the pre-set temperature at 80°C is reached.

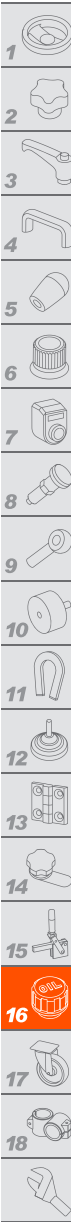
| Electrical features          |  | MAX temperature sensor |
|------------------------------|--|------------------------|
| Power supply                 | AC/DC  |                        |
| Electric contacts            | NO normally open<br>NC normally closed       |                        |
| Voltage /<br>Maximum current | 250 Vac - 10 A<br>48 Vdc - 5 A               | (resistive loads)      |
| Cable gland                  | Pg 7 (for cables in sheath with Ø 6 or 7 mm) |                        |
| Conductors cross-section     | Max 1.5 mm <sup>2</sup>                      |                        |



| Conversion Table<br>1 mm = 0.039 inch |       |
|---------------------------------------|-------|
| mm                                    | inch  |
| 127                                   | 5.00  |
| 254                                   | 10.00 |

TWO-PIN CONNECTOR ASSEMBLY INSTRUCTIONS

1. Remove the connector from the indicator by unscrewing the set screw placed in the bottom, take the contact holder out and loosen the cable gland.
2. Slip on the two-pole cable into the connector (standard connector) and connect the wires to the terminals nr. 1 and nr. 2 of the contact holder.
3. Assembly 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.



| Code  | Description       | f   | d   | A  | B  | C  | H  | L   | e   | h1 | h2 | m  | r    | r1 | s  | d'-0.2 | f±0.2 | C#<br>[Nm] | ⚖   |
|-------|-------------------|-----|-----|----|----|----|----|-----|-----|----|----|----|------|----|----|--------|-------|------------|-----|
| 11161 | HCX.127-ST-NO-M12 | 127 | M12 | 23 | 18 | 31 | 27 | 187 | 80  | 21 | 54 | 23 | 17   | 26 | 22 | 12.5   | 127   | 12         | 220 |
| 11162 | HCX.127-ST-NC-M12 | 127 | M12 | 23 | 18 | 31 | 27 | 187 | 80  | 21 | 54 | 23 | 17   | 26 | 22 | 12.5   | 127   | 12         | 220 |
| 11171 | HCX.254-ST-NO-M12 | 254 | M12 | 21 | 18 | 35 | 27 | 315 | 203 | 21 | 54 | 26 | 18.5 | 24 | 22 | 12.5   | 254   | 10         | 265 |
| 11172 | HCX.254-ST-NC-M12 | 254 | M12 | 21 | 18 | 35 | 27 | 315 | 203 | 21 | 54 | 26 | 18.5 | 24 | 22 | 12.5   | 254   | 10         | 265 |

# Maximum tightening torque.