

Osmoz control and signalling units

Mounting

Non illuminated

Head with 1 contact block on 1 position clip

Head with 1 or 2 contact blocks on a 3 position clip

Head with 3 contact blocks on a 3 position clip

Head with 4 or 5 contact blocks on a 5 position clip

Head with 4, 5 or 6 contact blocks 2nd level of contact blocks stacked directly on first row (3 position clip)

Illuminated

Pilot light on 1 position clip

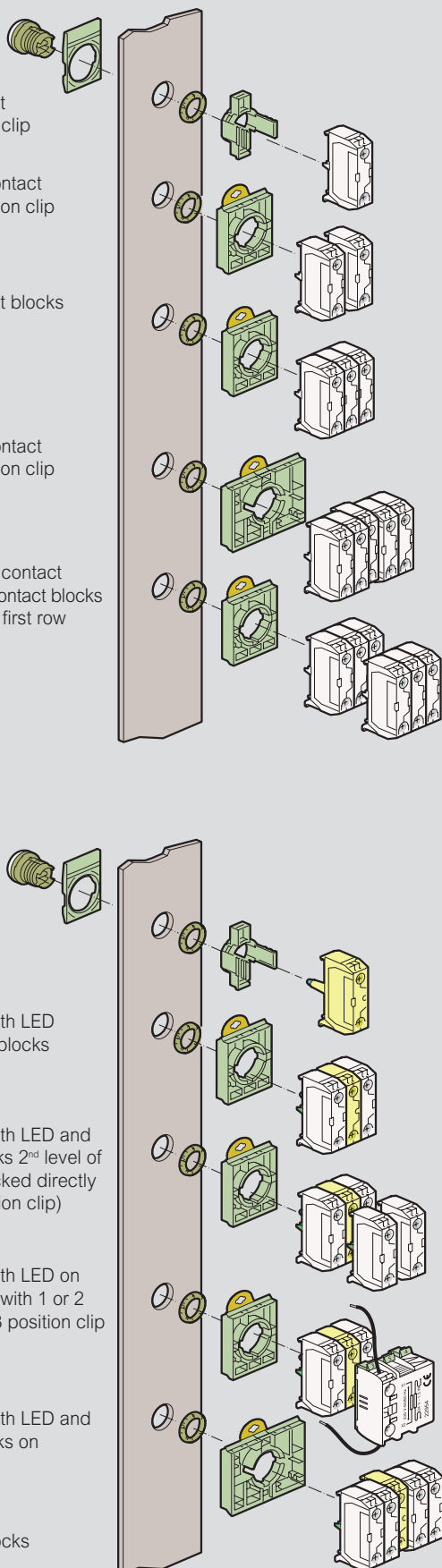
Illuminated head with LED and 1 or 2 contact blocks on 3-position clip

Illuminated head with LED and 3 or 4 contact blocks 2nd level of contact blocks stacked directly on first row (3 position clip)

Illuminated head with LED on transformer supply with 1 or 2 contact blocks on 3 position clip

Illuminated head with LED and 3 or 4 contact blocks on 5 position clip

Illuminated blocks



Technical characteristics

- Climatic resistance:
 - conform to IEC 60068-2-3 (constant humid heat)
 - conform to IEC 60068-2-30 (cyclical damp heat)
 - Degree of protection conform to IEC 60529
 - IP 66 or IP 69, IP 69K for standard heads
 - IP 67 for shrouded heads
 - IP 66 for equipped control stations
 - IP 20 at the rear of the panel for contact blocks and one piece pilot lights
 - Nema 4x, 12 and 13 for heads and control stations
 - Protection against mechanical shocks conform to IEC 50102:
 - IK 05 illuminated and non illuminated heads
 - IK 07 empty control station
 - Protection against electrical shocks:
 - Class II according to IEC 60947-5-1
 - Tightening torque: head nut: recommended 3 N.m
terminals: max. 1.2 N.m
- cULus and Bureau Veritas approvals

Contact blocks (for non illuminated heads)

- Rated insulation voltage:
 - Degree of pollution 3
 - 690 V according to IEC/EN60947 for flush block with screw terminals or spring terminals
 - 600 V AC according to UL 508

- NC contacts:
 - Positive opening conform to IEC/EN 60947-5-1
- Rated impulse withstand voltage U_{imp} : 6kV contact blocks
- Convention thermal conform to IEC 60947-5-1 current in free air conditions:
 - AC: 10 A
 - DC: 2.5 A

- Electrical performance:

<ul style="list-style-type: none"> - AC according to IEC 60947-5-1 AC15 - A 600 $U_e = 120\text{ V}, I_e = 6\text{ A}$ $U_e = 240\text{ V}, I_e = 3\text{ A}$ $U_e = 380\text{ V}, I_e = 1.9\text{ A}$ $U_e = 480\text{ V}, I_e = 1.5\text{ A}$ $U_e = 500\text{ V}, I_e = 1.4\text{ A}$ $U_e = 500\text{ V}, I_e = 1.2\text{ A}$ 	<ul style="list-style-type: none"> - DC according to IEC 60947-5-1 DC13 - Q 600 $U_e = 125\text{ V}, I_e = 0.55\text{ A}$ $U_e = 250\text{ V}, I_e = 0.27\text{ A}$ $U_e = 400\text{ V}, I_e = 0.15\text{ A}$ $U_e = 500\text{ V}, I_e = 0.13\text{ A}$ $U_e = 500\text{ V}, I_e = 0.1\text{ A}$
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- Electrical durability
 - 1 million cycles for:
 - AC15 - B 300
 - $U_e = 120\text{ V}, I_e = 3\text{ A}$
 - $U_e = 240\text{ V}, I_e = 1.5\text{ A}$
 - DC13 - R 300
 - $U_e = 125\text{ V}, I_e = 0.22\text{ A}$
 - $U_e = 250\text{ V}, I_e = 0.1\text{ A}$

- Connection capacity (rigid or flexible wire)
 - without ferrule: $2 \times 0.5\text{ mm}^2$ to $2 \times 2.5\text{ mm}^2$
 - with ferrule: $2 \times 0.5\text{ mm}^2$ to $2 \times 1.5\text{ mm}^2$

LED blocks and LED pilot lights (for illuminated heads)

- Rated insulation voltage:
 - Degree of pollution 3
 - 300 V according to IEC/EN60947-5-1
- Rated insulation withstand voltage U_{imp} : 4kV conform to IEC/EN 60947-1
- Operating voltage:

<ul style="list-style-type: none"> 12 to 24 V AC/DC 130 V AC 230 V AC 	}	± 10 %
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- Frequency: 50 or 60 Hz
- Lifetime at rated supply voltage:
 - Red and yellow: 100,000 hours at 25°C
 - Other colours: 50,000 hours at 25°C
- Consumption of LED blocks:
 - Voltage:
 - 24 V: 25 mA ± 20%
 - 48 V: 15 mA ± 10%
 - 130 V: 20 mA ± 10%
 - 230 V: 16 mA ± 30%