# Heavy-Duty 30.5 mm Metal Indicating Lights 



## Heavy-Duty Zinc Die Cast Construction <br> $\checkmark$ Diaphragm Seals with Drainage Holes $\checkmark$ Push-to-Test

The 30.5 mm pushbutton line features a zinc die cast construction with chrome-plated housing and mounting nut. The same durable construction is also available with the corrosive resistant E34 Series of pushbuttons.
The contact blocks feature enclosed silver contacts with pointed "reliability nibs" for reliable performance from logic level up to 600 V . To ensure reliable switching, nibs bite through oxide which can form on silver contacts, eliminating the need for expensive logic level blocks for most applications. Reliability nibs improve performance in dry circuit, corrosive, fine dust and other contaminated atmospheres. Under normal environmental conditions, the minimum operational voltage is 5 V and the minimum operational current is $1 \mathrm{~mA}, \mathrm{AC} /$ DC. For operation under a wider range of environmental conditions, logic level contact blocks with inert palladium tipped contacts are recommended.
10250T Series operators have "grounding nibs"-4 metal points on the operator casting designed to bite through most paints and other coatings on metal panels to enhance the ground connection when the operator is securely tightened.
Omega's pushbutton operators offer front of panel drainage via holes in the operator bushing. Hidden from view by the mounting nut, these holes prevent buildup of liquid inside the operator, which can prevent operation in freezing environments. The holes also provide a route for escaping

liquid in high pressure washdowns, effectively relieving pressure from the internal diaphragm seal. This ensures reliable sealing in applications even beyond NEMA 4.

## Specifications

Standards and Certifications:
CE EN60947-5-1
UL 508: File No. 131568
CSA C22.2 No. 14: File No.
LR68551
Ingress Protection (When
Mounted in Similarly
Rated Enclosure):
Standard Indicating Lights:
UL (NEMA) Type 1, 2, 3, 3R, 3S, 4, 4X, 12, 13; IEC IP65
All Other Operators: UL (NEMA)
Type 1, 2, 3, 3R, 4, 4X, 12, 13; IEC IP65
MECHANICAL RATINGS
Frequency of Operation:
All Pushbuttons: 6000
operations per hr
Key and Lever Selector

## Switches:

3000
operations per hr
Auto-Latch Devices: 1200
operations per hr

Life:
Pushbuttons: $10 \times 10^{6}$ operations
Contact Blocks: $10 \times 10^{6}$ operations
PresTest Units: $10 \times 10^{6}$ operations
Lever and Key Selector

## Switches:

$0.25 \times 10^{6}$ operations
Twist-to-Release Pushbuttons:
$0.3 \times 10^{6}$ operation
Shock Resistance Duration:
$20 \mathrm{mS} \geq 5 \mathrm{~g}$
Climate Conditions:
Operating Temperature:
-17 to $66^{\circ} \mathrm{C}\left(1\right.$ to $150^{\circ} \mathrm{F}$ )
Storage Temperature:
-40 to $80^{\circ} \mathrm{C}\left(-40\right.$ to $\left.176^{\circ} \mathrm{F}\right)$
Altitude: 2000 m (6562')
Max Humidity: 95\% RH
@ $60^{\circ} \mathrm{C}\left(140^{\circ} \mathrm{F}\right)$
Terminals: Marking; NC-NO on the contact block to meet the NEMA requirements; dual marking system 1 to 2 for normally closed, 3 to 4 for normally open to meet BS5472
(Cenelec EN50 005)
Clamps: Terminals are saddle
clamp type for $1 \times 22$ AWG (0.34 $\mathrm{mm}^{2}$ ) to $2 \times 14$ AWG ( $2.5 \mathrm{~mm}^{2}$ ) conductors; torque $=7 \mathrm{lb}$-in $(0.8 \mathrm{Nm})$

Degree of Protection Against Direct Electrical Contact: IP2X with fingerproof shroud Light Units: Transformers will withstand short circuit for 1 hr per IEC 60997-5-1

## Average Bulb Life:

Transformer Type: 20,000 hrs Resistor/Direct Voltage Type: 2500 hr min @ rated V
LED: 60,000 to 100,000 hrs
Electrical Ratings
Insulation: Ui=660 Vac or Vdc Thermal: lth $=10 \mathrm{~A}$


Short Circuit Coordination to IEC/EN 60947-5-1:

## Rated Conditional

Short Circuit
Current: 1 kA
Fuse Type: GE Power Controls
TIA 10, Red Spot Type gG, 10 A,
660 Vac, 460 Vdc, BS88-2,
IEC 60269-2-1
UL Rating: A600, P600
AC Load Life Duty Cycle: 1200 operations per hr

10A: 110 V pf $0.4-1 \times 10^{6}$ operations
5A: 250 V pf $0.4-1 \times 10^{6}$ operations
2A: 660V pf 0.4-1 $\times 10^{6}$ operations
Lenses for indicating lights


Switching Capacity:
AC15 Rated

## Make/Break

( 11 x le at 1.1 x Ue ):
6 A: 120 V pf 0.3
4 A: 240V pf 0.3
$2 \mathrm{~A}: 660 \mathrm{~V}$ pf 0.3
DC13 Rated Make/Break
( 1.1 x le at $1.1 \times \mathrm{Ue}$ ):
1.0 A: 125V L/R $\geq 0.95$ @ 300 mS
$0.55 \mathrm{~A}: 250 \mathrm{~V} \mathrm{~L} / \mathrm{R} \geq 0.95$ @ 300 mS
0.1 A: 660 V L/R $\geq 0.95$ @ 300 mS
$10 \mathrm{~A}: 110 \mathrm{~V}$ pure resistive
Maximum Ratings for Logic
Level and Hostile Atmosphere
Application:
Max Amperes: 0.5 A
Max Volts: 120 Vac/Vdc


10250TC8N


10250 TC22

All models shown smaller than actual size.

## To Order

| Model No. | Description |
| :--- | :--- |
| 10250T Indicating Lights* |  |
| 10250T221N | Pres-test 120V transformer type, no lens |
| 10250T231N | Pres-test 120V full voltage/resistor type, no lens |
| 10250T181N | 120V transformer type, no lens |
| 10250T201N | 120V full voltage/resistor type, no lens |

Comes complete with retaining nut, operator gasket and operator's manual.

* Operators require lens, sold separately, see table below for selection.


## Accessories

| Model No. | Description |
| :--- | :--- |
| 10250T Lens for Indicating Lights |  |
| 10250TC12N | White, glass (for indicating lights) |
| 10250TC13N | Red, glass (for pres-test or illuminated pushbuttons) |
| 10250TC14N | Green, glass (for pres-test or illuminated pushbuttons) |
| 10250TC15N | Amber, glass (for pres-test or illuminated pushbuttons) |
| 10250TC19N | Amber, plastic (for indicating lights) |
| 10250TC1N | Red, plastic (for indicating lights) |
| 10250TC21 | Red, plastic (for pres-test or illuminated pushbuttons) |
| 10250TC22 | Green, plastic (for pres-test or illuminated pushbuttons) |
| 10250TC2N | Green, plastic (for indicating lights) |
| 10250TC43 | Amber, plastic (for pres-test or illuminated pushbuttons) |
| 10250TC6N | White, plastic (for indicating lights) |
| 10250TC7N | Red, glass (for indicating lights) |
| 10250TC8N | Green, glass (for indicating lights) |
| 10250TC9N | Amber, glass (for indicating lights) |

Ordering Examples: 10250T221N, pres-test 120V transformer type, and 10250TC1N, red plastic lens.
10250T201N, 120V full voltage/resistor type indicating light operator, and 10250TC8N, green glass lens.

