# HEAVY-DUTY 30.5 mm METAL PUSHBUTTONS 

## $10250 T$ Series ( $€$ (IL) (1)

Heavy-Duty Zinc Die Cast Construction<br>- Enclosed Silver Contacts with Reliability Nibs<br>- Diaphragm Seals with Drainage Holes<br>- Grounding Nibs on Operator Casing

The 30.5 mm pushbutton line features a zinc die cast construction with chromeplated 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 600V. 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 $1 \mathrm{~mA}, \mathrm{AC} /$ $D C$. 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

## 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: $10 \times 106$ operations Contact Blocks: $10 \times 106$ operations PresTest Units: $10 \times 106$ operations Lever and Key Selector Switches: $0.25 \times 106$ operations
Twist-to-Release Pushbuttons: $0.3 \times 106$ operation Shock Resistance Duration: $20 \mathrm{mS} \geq 5 \mathrm{~g}$

Climate Conditions:
Operating Temperature: -17 to $66^{\circ} \mathrm{C}$
( 1 to $150^{\circ} \mathrm{F}$ )
Storage Temperature: -40 to $80^{\circ} \mathrm{C}$
(-40 to $176^{\circ} \mathrm{F}$ )
Altitude: 2000 m (6562')
Max Humidity: $95 \% \mathrm{RH} @ 60^{\circ} \mathrm{C}$ ( $140^{\circ} \mathrm{F}$ )
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 mm 2 ) to $2 \times 14$ AWG ( 2.5 mm ) conductors; torque $=7 \mathrm{lb}-\mathrm{in}(0.8 \mathrm{Nm})$
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: Ith = 10 A

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

## Rated Conditional Short Circuit

 Current: 1 kAFuse 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: 110V pf $0.4-1 \times 106$
operations
5A: 250V pf $0.4-1 \times 106$ operations
2A: 660V pf $0.4-1 \times 106$ operations
Switching Capacity:
AC15 Rated Make/Break
( 11 x le at 1.1 x Ue ):
$6 \mathrm{~A}: 120 \mathrm{~V}$ pf 0.3
$4 \mathrm{~A}: 240 \mathrm{~V}$ pf 0.3
$2 \mathrm{~A}: 660 \mathrm{~V}$ pf 0.3
DC13 Rated Make/Break
(1.1 x le at 1.1 x Ue ):
1.0 A: 125V L/R $\geq 0.95$ @ 300 mS
0.55 A: 250V L/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: $120 \mathrm{Vac} / \mathrm{Vdc}$



## To Order

| MODEL NO. | DESCRIPTION |
| :--- | :--- |
| $10250 T$ MOMENTARY PUSHBUTTON OPERATORS |  |
| $10250 T 101$ | Black flush pushbutton operator |
| $10250 T 103$ | Green flush pushbutton operator |
| $10250 T 112$ | Red extended pushbutton operator |
| $10250 T 122$ | Red mushroom head operator |
| $10250 T 5$ | Push-pull maintained 2-position operator without lens |
| $10250 T 17213$ | E-Stop mushroom operator |
| $10250 T 411$ | Illuminated pushbutton operator, no lens, 120 Vac, incandescent |
| $10250 T 172$ | Red jumbo mushroom head operator |
| $10250 T 79$ | $24 / 48 \mathrm{~V}$ full votage push-pull light unit |
| $10250 T 63$ | 120 V transformer incandescent push-pull light unit |

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10250T201N

To Order
MODEL NO.

## DESCRIPTION

10250 T 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 with instruction sheet.
Ordering Example: 10250T221N, pres-test 120 V transformer type.



All models shown smaller than actual size.

| TO ORAG |  |
| :--- | :--- |
| MODEL NO. | DESCRIPTION |
| 10250T SELECTOR SWITCHES - MAINTAINED |  |
| 10250T1311 | 2-position maintained selector switch, knob |
| $10250 T 1323$ | 3-position maintained selector switch, knob |
| $10250 T 3011$ | 2-position maintained selector switch, lever |
| $10250 T 3023$ | 3-position maintained selector switch, lever |
| $10250 T 15112$ | 2-position maintained selector switch, keyed |
| $10250 T 15237$ | 3-position maintained selector switch, keyed |



All models shown smaller than actual size.


10250T71


10250 T53

$10250 T 57$



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| :---: | :---: |
| MODEL NO. | DESCRIPTION |
| $10250 T$ PUSHBUTTONS CONTACT BLOCK |  |
| 10250T2 | Contact block-2 NO, 6 blocks can be stacked |
| 10250T3 | Contact block-2 NC, 6 blocks can be stacked |
| 10250T51 | Contact block-1 NC, 6 blocks can be stacked |
| 10250T53 | Contact block-1 NO, 6 blocks can be stacked |
| 10250T1 | Contact block-NO-NC, 6 blocks can be stacked |
| 10250T71 | Contact block-late opening NC |
| $10250 T 47$ | Contact block-early closing NO and standard NC |
| 10250T57 | Contact block-early closing NO and standard NO, 4 blocks can be stacked |

Comes with instruction sheet.
Ordering Example: 10250T2, contact block, 2 normally open.


10250T20LB


10250T21LB


10250T23B


10250T25R


10250 T 29

| UO Order |  |
| :--- | :--- |
| MODEL NO. | DESCRIPTION |
| 10250T COMMON COMPLETE DEVICES (INCLUDES CONTACT BLOCKS) |  |
| $\mathbf{1 0 2 5 0 T 2 0 L B}$ | On/Off switch (black knob switch comes with NO/NC contact block) |
| $\mathbf{1 0 2 5 0 T 2 1 L B}$ | H-O-A switch (black lever switch comes with 2 NO/2 NC contact blocks) |
| $\mathbf{1 0 2 5 0 T 2 3 B}$ | Start button (black flush button comes with NO contact block) |
| $\mathbf{1 0 2 5 0 T 2 5 R}$ | Stop button (red extended button comes with NC contact block) |
| $\mathbf{1 0 2 5 0 T 2 9}$ | Emergency stop (red jumbo MRH button comes with NC contact block) |

Comes with instruction sheet.
Ordering Example: 10250T29, emergency stop.


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| MODEL NO. | DESCRIPTION |
| $10250 T$ PUSHBUTTONS - HEAD AND LENS SELECTION TABLE |  |
| $10250 T B 62$ | Red button for non-illuminated push-pull |
| $\mathbf{1 0 2 5 0 T B 6 3}$ | Red (emergency stop) for non-illuminated push-pull |
| $\mathbf{1 0 2 5 0 T J 6 2}$ | Red jumbo mushroom head for non-illuminated push-pull |
| $\mathbf{1 0 2 5 0 T J 6 3}$ | Red jumbo mushroom head (emergency stop) for non-illuminated push-pull |
| $\mathbf{1 0 2 5 0 T C 4 7}$ | Red lens for illuminated push-pull |
| $\mathbf{1 0 2 5 0 T C 5 3}$ | Red (emergency stop) lens for illuminated push-pull |
| $\mathbf{1 0 2 5 0 T C 5 7}$ | Red side-lighted anodized aluminum ring |
| $\mathbf{1 0 2 5 0 T C 6 3}$ | Red (emergency stop) side-lighted anodized aluminum ring |

Comes with instruction sheet.
Ordering Example: 10250TC57, red side-lighted anodized aluminum ring.


10250TC12N


10250TC13N


10250TC14N


10250TC15N


10250TC9N


10250TC1N



10250TC6N


10250TC21


All models shown smaller than actual size.

## DESCRIPTION

To Order
MODEL NO.
10250T LENS FOR INDICATING LIGHTS

| 10250TC12N | White, glass (for indicating lights) |
| :--- | :--- |
| 10250TC13N | Red, glass (for PresTest or illuminated pushbuttons) |
| 10250TC14N | Green, glass (for PresTest or illuminated pushbuttons) |
| 10250TC15N | Amber, glass (for PresTest or illuminated pushbuttons) |
| 10250TC19N | Amber, plastic (for indicating lights) |
| 10250TC1N | Red, plastic (for indicating lights) |
| 10250TC21 | Red, plastic (for PresTest or illuminated pushbuttons) |
| 10250TC22 | Green, plastic (for PresTest or illuminated pushbuttons) |
| 10250TC2N | Green, plastic (for indicating lights) |
| 10250TC43 | Amber, plastic (for PresTest 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) |

Comes with instruction sheet.
Ordering Example: 10250TC12N, white, glass.


Comes with instruction sheet.
Ordering Example: 102TN12, 2-hole, 2 contact block depth enclosure.
All models shown smaller than actual size.

| 10 Order |  |
| :---: | :---: |
| MODEL NO. | DESCRIPTION |
| REPLACEMENT LAMPS |  |
| 28-3044 | 120V, 10250T resistor indicating light |
| 10250ED986-4 | $6.3 \mathrm{~V}, 10250 \mathrm{~T}$ flasher |
| 28-2202 | $6.3 \mathrm{~V}, 10250 \mathrm{~T}$ transformer, PresTest and full voltage |
| 28-5184 | $12 \mathrm{~V}, 10250 \mathrm{~T}$ full voltage |
| 28-5185 | $24 \mathrm{~V}, 10250 \mathrm{~T}$ full voltage |
| 28-5186 | 32 V , 10250T full voltage |
| 28-5187 | $55 \mathrm{~V}, 10250 \mathrm{~T}$ resistor |
| 28-494 | $120 \mathrm{~V}, 10250 \mathrm{~T}$ neon |
| 28-3754 | 120V, 10250T neon, T 31/4 bayonet |
| 28-3755 | $24 \mathrm{~V}, 10250 \mathrm{~T}$ neon |

Comes with instruction sheet.
Ordering Example: 28-3044, replacement lamp 120 V


[^0]:    Comes with retaining nut, operator gasket, and instruction sheet.
    Ordering Example: 10250T101, black flush pushbutton operator.

