HEAVY-DUTY 30.5 mm METAL PUSHBUTTONS



- Heavy-Duty Zinc Die Cast Construction
- Enclosed Silver Contacts with Reliability Nibs
- Diaphragm Seals with Drainage Holes
- 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 5V and the minimum operational current is 1 mA, 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; IÉC 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 x 106 operations Contact Blocks: 10 x 106 operations PresTest Units: 10 x 106 operations Lever and Key Selector Switches: 0.25 x 106 operations Twist-to-Release Pushbuttons: 0.3 x 106 operation Shock Resistance Duration: 20 mS ≥ 5g Climate Conditions: Operating Temperature: -17 to 66°C (1 to 150°F) Storage Temperature: -40 to 80°C (-40 to 176°F) Altitude: 2000 m (6562') Max Humidity: 95% RH @ 60°C (140°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 x 22 AWG (0.34 mm2) to 2 x 14 AWG (2.5 mm2) conductors; torque = 7 lb-in (0.8 Nm)

Degree of Protection Against Direct Electrical Contact: IP2X with fingerproof shroud

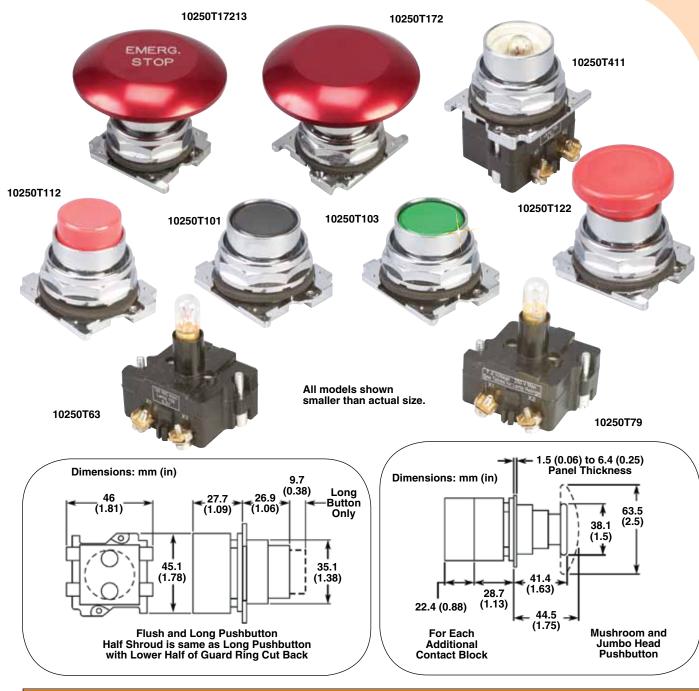
Light Units: Transformers will withstand short circuit for 1 hr per IEC 60997-5-1

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 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:** 110V pf 0.4 – 1 x 106 operations **5A:** 250V pf 0.4 – 1 x 106 operations **2A:** 660V pf 0.4 – 1 x 106 operations Switching Capacity: AC15 Rated Make/Break (11 x le at 1.1 x Ue): 6 A: 120V pf 0.3 4 A: 240V pf 0.3 2 A: 660V pf 0.3 DC13 Rated Make/Break (1.1 x le at 1.1 x Ue): **1.0 A:** 125V L/R ≥ 0.95 @ 300 mS **0.55 A:** 250V L/R ≥ 0.95 @ 300 mS **0.1 A:** 660V L/R ≥ 0.95 @ 300 mS **10 A:** 110V pure resistive Maximum Ratings for Logic Level and Hostile Atmosphere Application: Max Amperes: 0.5 A Max Volts: 120 Vac/Vdc





To Order	
MODEL NO.	DESCRIPTION
10250T MOMENTARY F	PUSHBUTTON OPERATORS
10250T101	Black flush pushbutton operator
10250T103	Green flush pushbutton operator
10250T112	Red extended pushbutton operator
10250T122	Red mushroom head operator
10250T5	Push-pull maintained 2-position operator without lens
10250T17213	E-Stop mushroom operator
10250T411	Illuminated pushbutton operator, no lens, 120 Vac, incandescent
10250T172	Red jumbo mushroom head operator
10250T79	24/48V full votage push-pull light unit
10250T63	120V transformer incandescent push-pull light unit
Comes with retaining nut, ope	rator gasket, and instruction sheet.

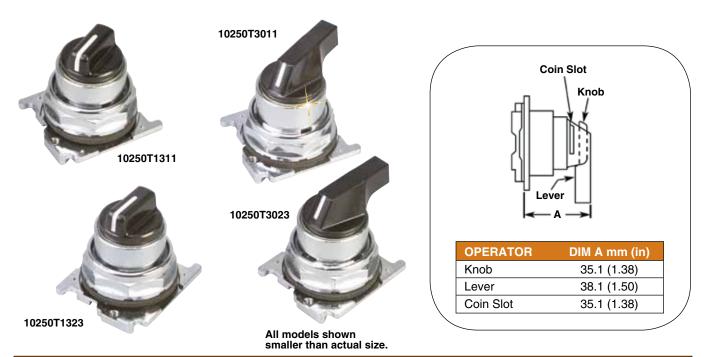
Ordering Example: 10250T101, black flush pushbutton operator.



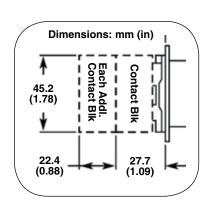
All models shown smaller than actual size.

To Order		
MODEL NO.	DESCRIPTION	
10250T INDICATING LIGH	TS	
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.



To Order	
MODEL NO.	DESCRIPTION
10250T SELECTOR SW	VITCHES – MAINTAINED
10250T1311	2-position maintained selector switch, knob
10250T1323	3-position maintained selector switch, knob
10250T3011	2-position maintained selector switch, lever
10250T3023	3-position maintained selector switch, lever
10250T15112	2-position maintained selector switch, keyed
10250T15237	3-position maintained selector switch, keyed



All models shown smaller than actual size.



To Order	
MODEL NO.	DESCRIPTION
10250T PUSHBUT	TONS 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
10250T47	Contact block—early closing NO and standard NC
10250T57	Contact block—early closing NO and standard NO, 4 blocks can be stacked
10250T47	Contact block—early closing NO and standard NC 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.





10250T21LB



10250T23B



10250T25R

10250T29

To Order	
MODEL NO.	DESCRIPTION
10250T COMMON CO	MPLETE DEVICES (INCLUDES CONTACT BLOCKS)
10250T20LB	On/Off switch (black knob switch comes with NO/NC contact block)
10250T21LB	H-O-A switch (black lever switch comes with 2 NO/2 NC contact blocks)
10250T23B	Start button (black flush button comes with NO contact block)
10250T25R	Stop button (red extended button comes with NC contact block)
10250T29	Emergency stop (red jumbo MRH button comes with NC contact block)

Comes with instruction sheet.

Ordering Example: 10250T29, emergency stop.



To Order	
MODEL NO.	DESCRIPTION
10250T PUSHBUTTONS	- HEAD AND LENS SELECTION TABLE
10250TB62	Red button for non-illuminated push-pull
10250TB63	Red (emergency stop) for non-illuminated push-pull
10250TJ62	Red jumbo mushroom head for non-illuminated push-pull
10250TJ63	Red jumbo mushroom head (emergency stop) for non-illuminated push-pull
10250TC47	Red lens for illuminated push-pull
10250TC53	Red (emergency stop) lens for illuminated push-pull
10250TC57	Red side-lighted anodized aluminum ring
10250TC63	Red (emergency stop) side-lighted anodized aluminum ring

Comes with instruction sheet.

Ordering Example: 10250TC57, red side-lighted anodized aluminum ring.



To Order	
MODEL NO.	DESCRIPTION
10250T LENS FOR INDICA	ATING 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.

		To Order	
		MODEL NO.	DESCRIPTION
		10250T LEGEND PLAT	
		10250TM13	E-stop
FOR		10250TM24	Off
FOR. REV.		10250TM25	On
	10250TM38,	10250TM25	Run
	shown smaller nan actual size.		Start
		10250TM33	
START	STOP	10250TM34	Stop
STANT	STUP	10250TM36	Blank
		10250TM38	For/Rev
		10250TM42	Off/On
107501M35		10250TM47	Start/Stop
		10250TM50	F-O-R
10250TM47,		10250TM51	H-O-A
shown smaller than actual size.		10250TM80	Power On
	Photo Mith	Comes with instruction shee	t.
All models shown smaller than actual size. 10250TN11	10250TN1	10250	DTN13
To Order Model NO.		DESCRIPTION	
10250T ENCLOSURES			th enclosures
10250T ENCLOSURES 10250TN11		1-hole 2-contact block dep	
10250T ENCLOSURES 10250TN11 10250TN12		1-hole 2-contact block dep 2-hole 2-contact block dep	th enclosures
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13		1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep	th enclosures th enclosures
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14		1-hole 2-contact block dep 2-hole 2-contact block dep	th enclosures th enclosures th enclosures
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13		1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep	th enclosures th enclosures
10250T ENCLOSURES10250TN1110250TN1210250TN1310250TN14Comes with instruction sheet.Ordering Example: 102TN12		1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep	th enclosures th enclosures th enclosures All models shown smaller than actual size.
10250T ENCLOSURES10250TN1110250TN1210250TN1310250TN14Comes with instruction sheet.Ordering Example: 102TN1228-304428-3044	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep block depth enclosure.	th enclosures th enclosures th enclosures All models shown smaller than actual size.
10250T ENCLOSURES10250TN1110250TN1210250TN1310250TN14Comes with instruction sheet.Ordering Example: 102TN12	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep block depth enclosure.	th enclosures th enclosures th enclosures All models shown smaller than actual size.
10250T ENCLOSURES10250TN1110250TN1210250TN1310250TN14Comes with instruction sheet.Ordering Example: 102TN1228-304428-304428-To Order	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep block depth enclosure. 28-3755	th enclosures th enclosures th enclosures All models shown smaller than actual size.
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep block depth enclosure. 28-3755	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185
10250T ENCLOSURES10250TN1110250TN1210250TN1310250TN1310250TN14Comes with instruction sheet.Ordering Example: 102TN1228-304428-To OrderMODEL NO.REPLACEMENT LAMPS	2, 2-hole, 2 contact	1-hole 2-contact block depi 2-hole 2-contact block depi 3-hole 2-contact block depi 4-hole 2-contact block depi * block depth enclosure. 28-3755 28-3755 DESCRIPTION	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 28-3044	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure</i> . 28-3755 28- 28- 28- 28- 28- 28- 28- 28-	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 28-3044 10250ED986-4	2, 2-hole, 2 contact	1-hole 2-contact block depi 2-hole 2-contact block depi 3-hole 2-contact block depi 4-hole 2-contact block depi <i>block depth enclosure.</i> 28-3755 39-3755 39-3755 39-3755 39-3755 39-3755 39-3755 39-3755 39-3755 <	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-202	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure.</i> 28-37555 28-3755	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-5184	2, 2-hole, 2 contact	1-hole 2-contact block depi 2-hole 2-contact block depi 3-hole 2-contact block depi 4-hole 2-contact block depi 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 28-3755 29-3755 <	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-202 28-5184 28-5185	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure.</i> 28-28-3755 28-38-3755 28-28-3755	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-5184 28-5185 28-5186	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure.</i> 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-5184 28-5185 28-5186 28-5187	2, 2-hole, 2 contact	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure.</i> 28-3755 28- 28-3755 28- 28- 28- 28- 28- 28- 28- 28-	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light PresTest and full voltage
10250T ENCLOSURES 10250TN11 10250TN12 10250TN13 10250TN14 Comes with instruction sheet. Ordering Example: 102TN12 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 28-3044 10250ED986-4 28-5184 28-5185 28-5186 28-5187 28-494	2, 2-hole, 2 contact 3754	1-hole 2-contact block dep 2-hole 2-contact block dep 3-hole 2-contact block dep 4-hole 2-contact block dep <i>block depth enclosure.</i> 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-28-3755 28-	th enclosures th enclosures All models shown smaller than actual size. 494 28-5184 28-5185 cating light PresTest and full voltage

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