



Contents

<i>Description</i>	<i>Page</i>
30.5 mm Heavy-Duty Watertight/Oiltight—10250T	
Product Overview	V7-T1-183
Product Identification	V7-T1-183
Catalog Number Selection	V7-T1-184
Product Selection	
Point-of-Purchase Packaging	V7-T1-186
Non-Illuminated Momentary Pushbutton Units	V7-T1-187
Pushbuttons	V7-T1-188
Illuminated Momentary Pushbutton Units	V7-T1-192
Indicating Light Units	V7-T1-193
Illuminated Pushbuttons and Indicating Lights	V7-T1-194
Push-Pull Emergency Stop	V7-T1-196
Illuminated Push-Pull Units	V7-T1-199
Potentiometers	V7-T1-202
Push-Pull Operators	V7-T1-203
Selector Switch Units	V7-T1-207
Selector Switch Selection	V7-T1-208
Selector Switch Operators	V7-T1-211
Illuminated Selector Switch Operators	V7-T1-214
Joystick Units	V7-T1-215
Joysticks	V7-T1-216
Roto-Push Units	V7-T1-219
Roto-Push Operators	V7-T1-220
Accessories	V7-T1-225
Options	V7-T1-230
Replacement Parts	V7-T1-239
Technical Data and Specifications	V7-T1-241
Dimensions	V7-T1-244



Drawings
Online

Product Description

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 line of pushbuttons. See E34 section on **Pages V7-T1-254 to V7-T1-288**.

Features

- Heavy-duty zinc die cast construction
- Enclosed silver contacts with reliability nibs
- Diaphragm seals with drainage holes
- Grounding nibs on the operator casing

Benefits

- Reliability nibs improve contact reliability even under dry circuit and fine dust conditions
- Drainage holes prevent buildup of liquid inside the operator which can prevent operation in freezing environments
- Grounding nibs bit through paint and other coatings to provide secure ground

Application Description

Contact Operation

Slow make and break. All normally closed contacts have positive opening operation, i.e., normally closed contacts are forced open in the event of contact weld or spring breakage.

Standards and Certifications

- CE EN 60947-5-1 and 60947-5-5
- UL 508—File No. 131568
- CSA C22.2 No. 14—File No. LR68551



Ingress Protection

When mounted in similarly rated enclosure—

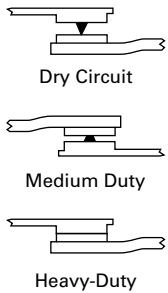
- Standard indicating lights
 - UL (NEMA) Type 1, 2, 3, 3R, 3S, 4, 4X, 12, 13
 - IEC IP65
- Most other operators
 - UL (NEMA) Type 1, 2, 3, 3R, 4, 4X, 12, 13
 - IEC IP65

Product Overview

Reliability Nibs

Eaton’s 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



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.

Grounding Nibs

10250T line operators have “grounding nibs”—four 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.

Grounding Nibs

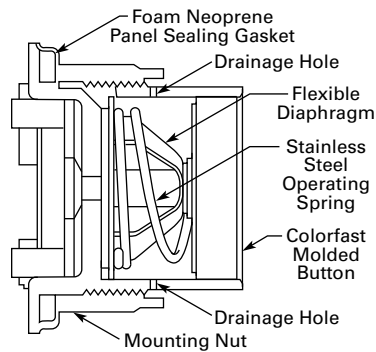


Diaphragm Seal with Drainage Holes

Liquid Drainage

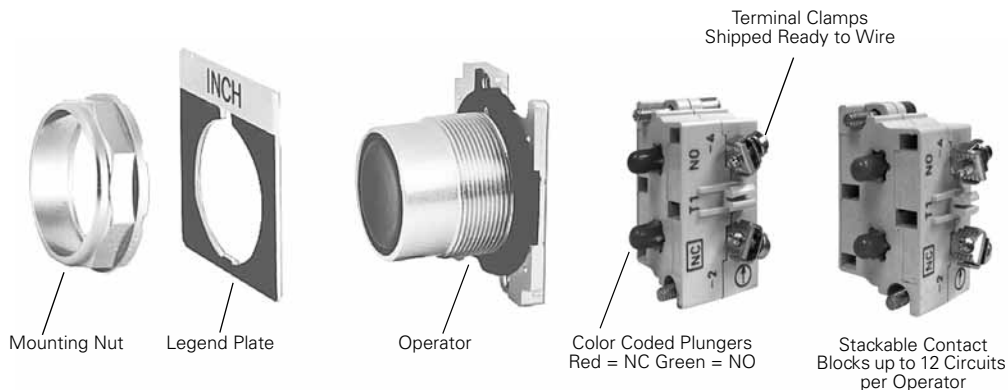
Eaton’s pushbutton operators offer front of panel drainage via holes in the operator bushing. Hidden from view by the mounting nut, these holes prevent buildup of liquid inside the operator, which can prevent operation in freezing environments. The holes also provide a route for escaping liquid in high pressure washdowns, effectively relieving pressure from the internal diaphragm seal, ensuring reliable sealing in applications even beyond NEMA 4.

Diaphragm Seal



Product Identification

30.5 mm Heavy-Duty Watertight/Oiltight—10250T Series

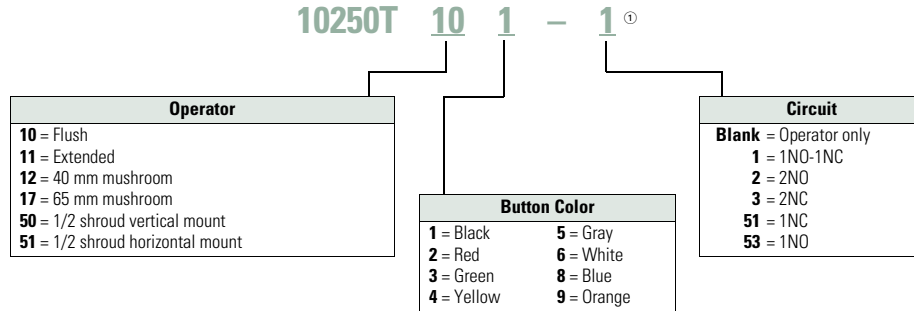


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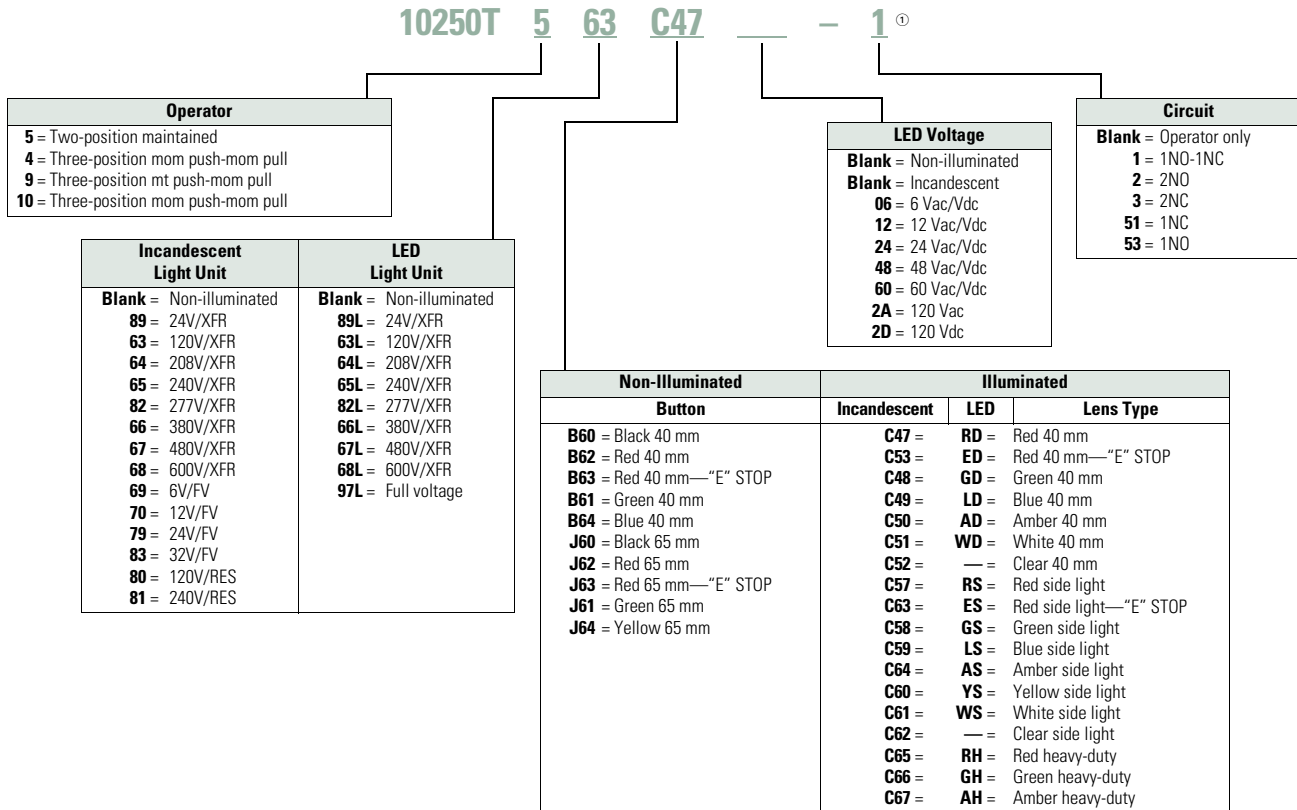
Catalog Number Selection

Catalog Number Selection is for illustrative purposes only and not to be used to create new catalog numbers.

Non-Illuminated Pushbuttons



Illuminated and Non-Illuminated Push-Pulls



Note

① Add **X** at end of catalog number to receive parts assembled from factory.

1.8

Pushbuttons and Indicating Lights

30.5 mm Heavy-Duty Watertight/Oiltight—10250T

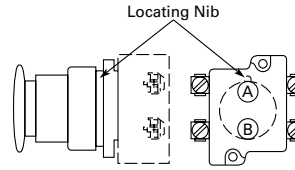
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Application Guide

To assist in the selection of contact blocks, the sketch to the right shows pictorially by symbols **A** and **B** locations of contact circuits after assembly of contact blocks

and adapter to the operator. The table below shows the effect of the push and pull operations on either NO or NC contacts. (X = contact closed, O = contact open).

Contact Circuit Locations

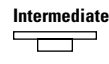


10250T579C47-71X



Push-Pull Operator Components

Operator Position and Circuit Arrangement



Contact Block Mounting Location

Type of Operator	Out—Pull		Intermediate		In—Push		Contact Block ①	Catalog Number
	A	B	A	B	A	B		
Two-Position Operator without Lens								
Maintained push-pull	O	O	No intermediate position		X	X	1NO	10250T5
	X or	X			O or	O	1NC	
	O	O			X	X	2NO	
	X	X			O	O	2NC	
Maintained push-pull with anti-theft jumbo mushroom	O	O	No intermediate position		X	X	1NO	10250ED1080
	X or	X			O or	O	1NC	
	O	O			X	X	2NO	
	X	X			O	O	2NC	
Three-Position Operator without Lens								
Momentary push-pull	O	O	O	O	X	O	1NO	10250T4 ①
	X or	X	O or	X	O or	O	1NC	
	O	O	O	O	X	O	2NO	
	X	X	O	X	O	O	2NC	
Maintained push-momentary pull	O	O	O	O	X	O	1NO	10250T9 ①
	X or	X	O or	X	O or	O	1NC	
	O	O	O	O	X	O	2NO	
	X	X	O	X	O	O	2NC	
Momentary push-pull	O	O	O	O	X	X	1NO	10250T10 ①
	X or	X	O or	O	O or	O	1NC	
	O	O	O	O	X	X	2NO	
	X	X	O	O	O	O	2ND	

Note

① Maximum of two blocks, four circuits. Special function contact blocks shown on Page V7-T1-235 CANNOT be used with three-position push-pull operators 10250T4, 10250T9 or 10250T10.