DESCRIPTION

The Fail-SafeTCS replaces conventional toggle switches in high abuse, clean room and security environments. It features a large, nearly flush, tamperproof stainless steel actuator which mounts through the wall or panel, exposing only the touch bolt head. It attaches to a rugged module that contains reliable, solid state, electronic circuitry. By simply touching the actuator, the module will control up to 2000 watts of illumination. For ease of installation and trouble-free operation, the touch bolt and module are installed in the same junction box or fixture. Modules can be programmed and wired in several configurations, (see Mounting Details). Actuator mountable 20' (max.) from electrical module (see "Important Installation Notes" for further details).

SPECIFICATION FEATURES

Touchbolt

Touch bolt hardware can be fixtureor wall-mounted. Available in 1/4-20 and 1/2-13 sizes. Stainless steel is standard. Includes bolt, nuts, insulators, and module touch wire connector.

Stainless Steel

Touch Sensor

Insulating Bushing

Stainless Steel

Touch Sensor

Panel Mount Touchbolt Assembly (1/4-20 or 1/2-13)

Mounting Surface -

1/4"-20 Requires 1/2" Mounting Hole 1/2"-13 Requires 1" Mounting Hole

Through Wall Touchbolt

Assembly (1/2-13)

Insulating Bushing

(Requires 1" Mounting Hole)

Electrical

110V-277VAC, 50/60 HZ Connect to unswitched line 1000 Watts each load, 2000 Watts max per module (1 or 2 loads).

All models have built-in Low Voltage Overrides. Does not require external relay. 24 V AC/DC

Exploded View



operation provides force-on, forceoff or neutral override function. Consult your Cooper Lighting Solutions Representative for override function usage.

UL Listing

Jam Nut

(1/4-20)

Wire Lua

Rear Insulating

Exploded View

Assembled View

Bushing or Washer

Recognized component appliance controls (ATNZ2).

Insulating Sleeve

Rear Insulating

Bushing

Jam Nut

(1/2 - 13)

· Wire Lug





TOUCH CONTROL SYSTEM

ENERGY DATA Input Watts

7 watts max.

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Specifications and dimensions subject to change without notice. Consult your representative for additional options and finishes. (Loads not included)
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FAIL-SAFE®

ORDERING INFORMATION

First specify Touch Control System, then Bolt Assembly and, finally, Options and Accessories

STAND ALONE ORDERING INFORMATION (Requires Accessories)





1 Bolt assemblies required for use with all stand-alone touch controls

IN-FIXTURE ORDERING INFORMATION (No Accessories Required)



INSTALLATION NOTES:

- 1 Max distance allowed of touch bolt wire from module is 20 feet. 2 Wire for touch bolt uses 16AWG or larger stranded copper. Do not use shielded cable
- 3 Non-metallic conduit for touch bolt wire is required for reliable operation. Through-wall
- penetrations must be made using PVC conduit. 4 Touch bolt wires cannot run in same conduit as power wires
- 5 Only one touch bolt wire can be run in a single conduit between the bolt and module

ACCESSORY ORDERING INFORMATION

BOLT ASSEMBLY CATALOG NUMBERS (Required Accessory for Stand-Alone TCS)

Catalog # ²	Mounting	Thread ¹	Length	Panel or Wall Thickness Range
TB-P4-TP	Panel	1/4″ - 20	3/4″	1/16" - 1/8"
TB-P4-025	Panel	1/4″ - 20	2 1/2"	1/16" - 1/2"
TB-P2-025	Panel	1/2″ - 13	2 1/2"	1/16" - 1/2"
TB-W2-060	Wall	1/2″ - 13	6″	2 1/2" - 4 1/2"
TB-W2-080	Wall	1/2″ - 13	8″	4 1/2" - 6 1/2"
TB-W2-100	Wall	1/2″ - 13	10″	6 1/2" - 8 1/2"

Bolt Assembly Notes:

Standard bolts are stainless steel.

2 Other combinations or options available; consult Cooper Lighting Solutions representative.

MOUNTING PLATE ASSEMBLIES

Catalog #	Description ¹	For Use With TB-P4-XX Bolt Assy.		
TB-PLT4	2 Gang Security Plate Assy. for One 91) 1/4 Bolt Assy.			
TB-PLT2	2 Gang Security Plate Assy. for One (1) 1/2-13 Bolt Assy.	TB-P2-XX Bolt Assy. TB-W2-XX Bolt Assy.		
TCS-411B TCS-SB44	4 11/16" x 4 11/16" x 2 1/8" J-Box TB-PLT4 and TB-P4-TP Assemblies	Stand-Alone TCS Recessed J-Box (Detail E)		

Mounting Accessory Notes:

¹ Security plate assemblies come with backplate and mounting hardware.

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MOUNTING DETAILS

-8-

Detail A ^{4, 5} Surface J-box TB-W2-XXX bolt thru wall







etail F 4,5 Recessed J-Box TCS in J-Box with TCS-SB44 security plate and short bolt assembly

Notes

- ¹TB-P4-TP bolt is standard for TCS in J-box behind cover plates
- (Detail E) and for in-fixture (Detail F) applications. 24V AC/DC override is standard on all TCS modules. (Force all loads on,
- all off, or neutral interaction.) TCS not available without override.
- TCS module not shown in J-Box for illustration purposes only ⁵ J-Box must be 4 11/16" x 4 11/16" x 2 1/8" or larger.







Detail B ^{4, 5} Recessed J-box TB-W2-XXX bolt thru wall



Detail D 4, 5 Surface J-box TB-W2-XXX bolt thru wall with TB-PLT2 security plate



