

TRD Series

Contacts	Gold over nickel or silver plate
Case Material	Polyamide, black matte finish
Actuator Material	Polyamide
Terminals/Fixed Contacts	Copper alloy with gold or silver plate
Terminal Seal	Epoxy

Operating Temperature -4°F to +176°F (-20°C to +80°C)
Storage Temperature -49°F to +199°F (-45°C to +93°C)

Contact Rating 0.4 VA Max. @ 20 VDC or peak AC
3 A @ 125 VAC or 28 VDC (2 pos.) 2A

Initial Contact Resistance 20 Milliohms max.

Contact Timing Break-before-make

Insulation Resistance 1,000 Megohms min.

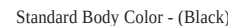
Dielectric Strength 500 Volts RMS @ sea level

Actuator Travel 23°

Life Expectancy 2 Pos. - 100,000 actuations
3 Pos. - 50,000 actuations

UL recognized under the Component Program of Underwriters
Laboratories Inc. File #E46765

NOTE: When hand soldering, solder with switch in closed position. Solder temperature 550-600°F less than 5 seconds.



(*) Specify rocker color by adding suffix number: (0) Black (2) Red, (6) Blue (9) Yellow.



(*) Specify LED color by adding suffix number: (2) Red, (4) Yellow, (5) Green, (25) Red/Green - Bi-color (On) indicates momentary position.

AUGAT Inc.
452 John L. Dietsch Blvd.
Attleboro Falls, MA 02763 USA
(508) 699-9800 FAX (800) 533-2526

TRD Series *Rocker/Paddle • How To Order*

MATERIAL SPECIFICATIONS:

Movable Contacts Copper alloy w/silver inlay contact or gold plate
 Terminals/Fixed Contacts Copper alloy w/silver inlay contact or gold plate
 Terminal Seal Epoxy
 Housing/Beveled Frame Polyamide, black matte finish

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature -4°F to +176°F (-20°C to +80°C)
 Storage Temperature -49°F to +199°F (-45°C to +93°C)
 Solder Heat Resistance Meets MIL-STD-202, method 210

TYPICAL PERFORMANCE CHARACTERISTICS:

Contact Rating Silver: 3A max. @ 125 VAC, option 3
 Gold: 0.4VA max. @ 20 VDC, option 1
 Initial Contact Resistance 20 Milliohms max.
 Static Withstanding 15KV, per IEC 801-2
 Insulation Resistance 1,000 Megohms min. @ 500 VDC
 Dielectric Strength 500 Volts RMS @ sea level
 Electrical Life 2 Pos. 20K cycles @ full rated 3A load, 80K @ 0.4VA, 3 pos. 10K cycles @ full rated 3A load, 60K @ 0.4VA

***NOTICE:** Caution should be used when hand-soldering. Solder heat Resistance -550°-600°F for less than 5 seconds. Solder with the switch in the closed position.

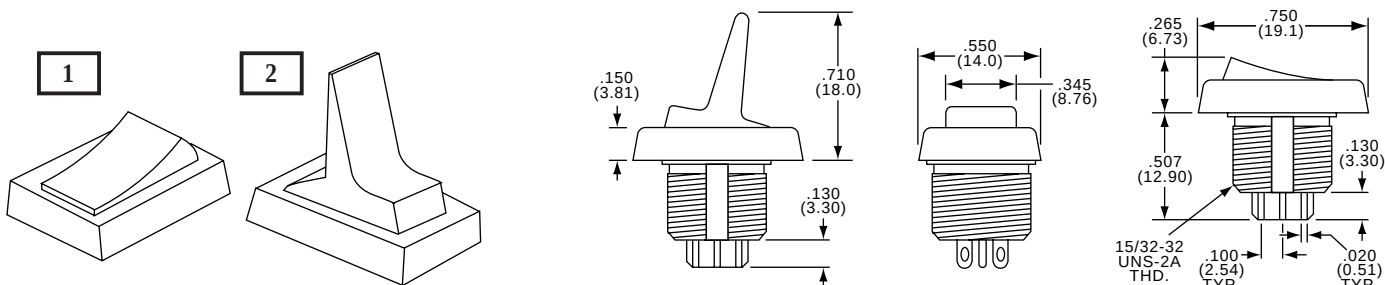
UL recognized under the Component Program of Underwriters Laboratories Inc. File #E46765

HOW TO ORDER

See pages M2-M4 for application specific indexing.

Model	Contact Rating	Function	Actuator	Actuator Color	Terminal	Mount	L.E.D. Illumin.	L.E.D. Color	*UL		
TRD1 Single Pole	Single Pole	D on-on	1 Rocker	WL Wire Lug	L Beveled frame adaptor	L Beveled frame adaptor	2 red	4 yellow	5 green		
TRD2 Double Pole		E on-off-on	2 Paddle	WW Wire Wrap						LR Integral w/rocker (TRD 1 only)	25 bi-color red/green
1 Gold 0.4VA		F on-(on)	0 black	QC Quick Connect							
3 Silver 3A		G (on)-off-(on)	2 red	PC Printed Circuit						15/32" round hole	
		H on-off-(on)	6 blue							5 1/2" square hole	
		Double Pole	9 yellow								
		N on-on									
		P on-off-on									
		R on-(on)									
		S (on)-off-(on)									
	T on-off-(on)										
							</				

ACTUATORS

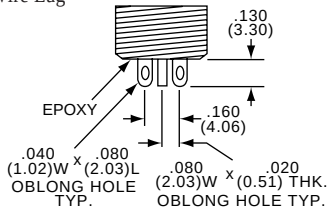


TERMINATIONS

(Epoxy seal standard)

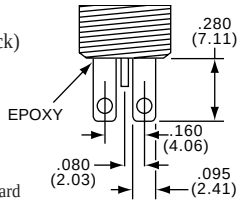
WL

Wire Lug



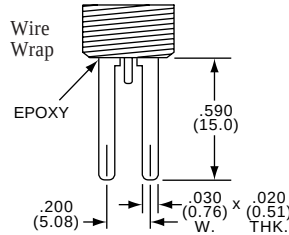
QC

Quick Connect
.110" (.020 thick)



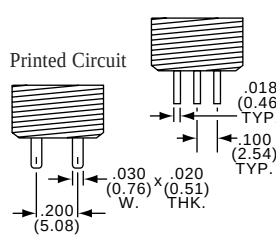
Mates with standard
.110" female connectors

VAL:—



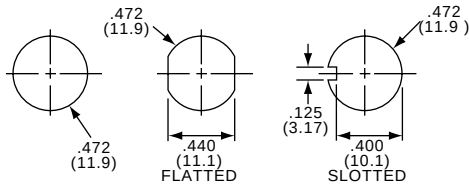
PC

Printed Circuit



15/32" HOLE STANDARD

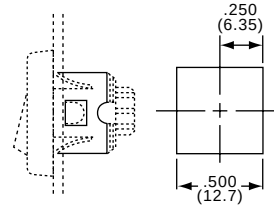
Standard TRD bushing will mount in any hole shown below.



.030" to .250"

.030" to .250"
One hex nut, one internal
tooth lock-washer supplied.

5 1/2" SQUARE CUTOUT SNAP-IN ADAPTOR



Recommended panel thickness:
.030" to .125"

Material: bright stainless steel
To specify adaptor separately,
use P/N **TRD10793**

CONTACTS/RATING/UL RECOGNITION

1	0.4VA Max. @ 20 VDC
---	---------------------

Movable Contact:	Copper alloy, gold plate
Fixed Contact/Terminal:	Copper alloy, gold plate

3 3A Max. @ 125 VAC

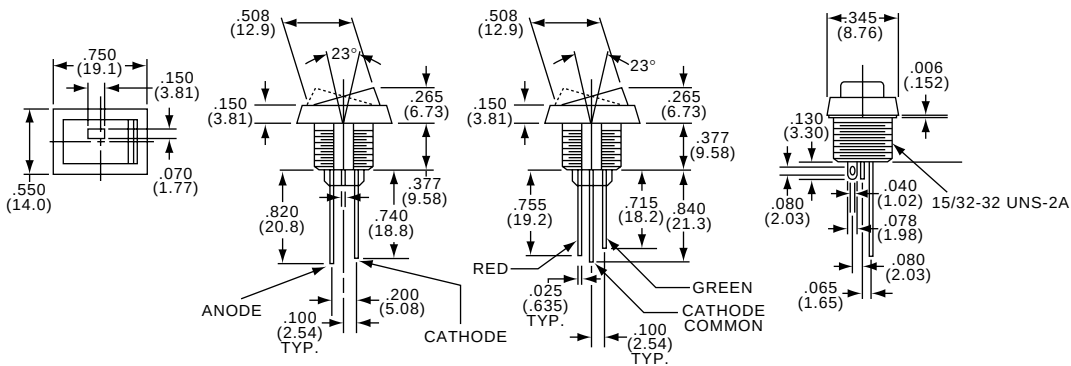
Movable Contact:	Copper alloy, silver inlay
Fixed Contact/Terminal:	Copper alloy, silver inlay

UL For contact option 3
Rating: 3A, 120 VAC(Resistive)
File: E46765
Underwriters Laboratories, Inc. n
stamped under beveled frame.

L.E.D. ILLUMINATION - SINGLE AND BI-COLOR

LR

**L.E.D. Integral
(Rocker Actuator)
All SPDT functions**



Standard mounting dimensions apply, L.E.D. supplied in **2** red, **4** yellow, **5** green, or **25** red/green.

L.E.D. Specifications: Max Voltage: 2.8 VDC

Max. Forward Current: red-20mA, Yellow-25 mA, green-25 mA, red/green-40 mA.

Need more technical information?

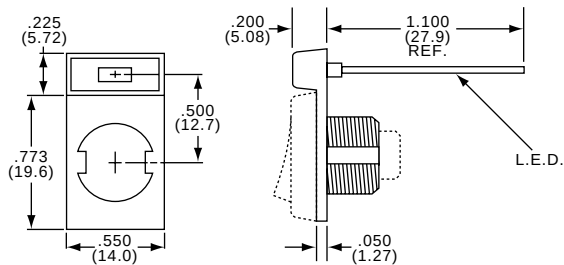
*Consult your local Augat sales office
listed on the back cover*

AUGAT Inc.
452 John L. Dietsch Blvd.
Attleboro Falls, MA 02763 USA
(508) 699-9800 FAX (800) 533-2526

TRD Series *Rocker/Paddle • How To Order*

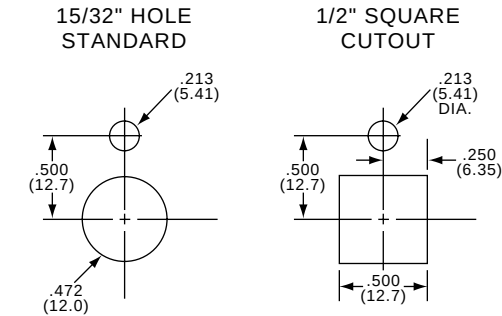
L

L.E.D. BEVELE FRAME ADAPTOR
(Accepts rectangular L.E.D.)



Material: Nylon 6/6
Color/Finish: Black, matte

MOUNTING



Recommended Panel Thickness: .030 to .220;
Recommended Panel Thickness: .030 to .095"

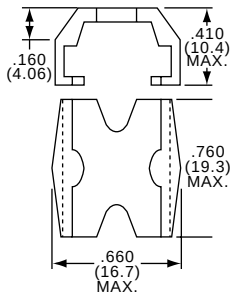
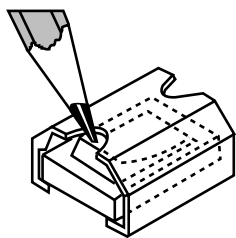
E

FUNCTIONS

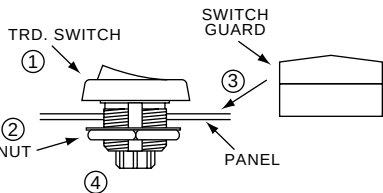
Single Pole	Double Pole	123 456	123 456	123 456
☐ D	☐ N	On	None	On
☐ E	☐ P	On	Off	On
☐ F	☐ R	On	None	(On)
☐ G	☐ S	(On)	Off	(On)
☐ H	☐ T	On	Off	(On)
SPDT Terminals Connected		2-3	---	1-2
DPDT Terminals Connected		2-3 5-6	---	1-2 4-5

- None** No mechanical position
- Off** Mechanical position, no electrical connection
- (On)** Momentary mechanical position, electrical connection

SWITCH GUARD



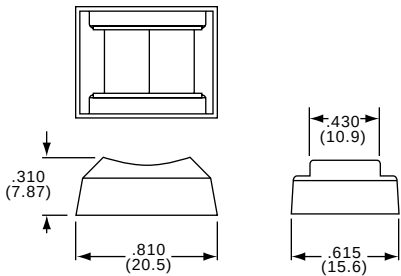
1. Insert switch in panel.
2. Attach lockwasher and hexnut.
3. Snap switch guard onto switch.
4. Tighten hex nut.



Recommended Panel Thickness:
15/32" hole standard - .030 to .220
15/32" square cutout - .030 to .095

Material: Nylon 6/6 **Color/Finish:** Black matte, Specify separately, P/N **TRD10979**

ROCKER BOOT SEAL



To specify boot seal use P/N **TRD11494**