

TRD Series

TYPICAL PERFORMANCE CHARACTERISTICS:

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	

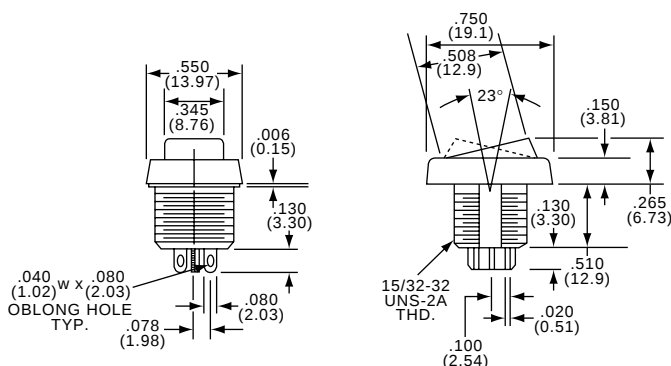
NOTE: When hand soldering, solder with switch in closed position. Solder temperature 550-600°F less than 5 seconds.

DPDT



TRD21N10WL

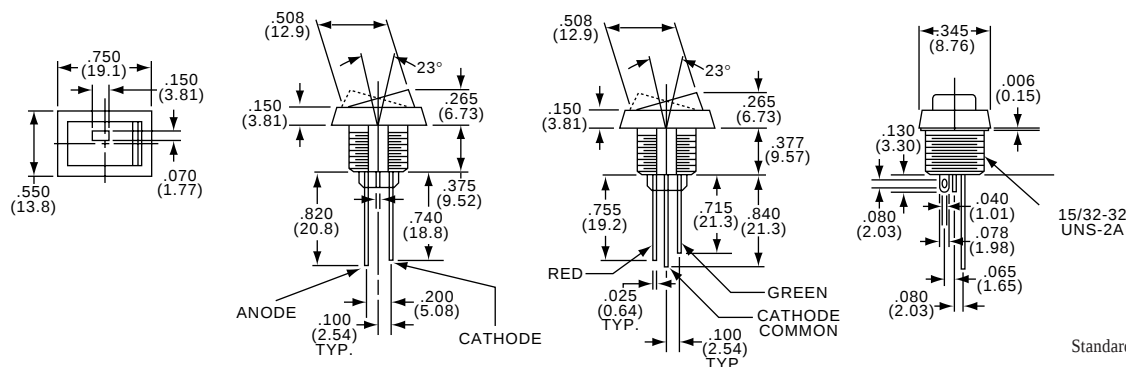
Standard Body Color - (Black)



Model	Type	Function			Act. Code Pg. M8	Contact	Terminal	Model	Type	Function			Act. Code Pg. M8	Contact	Terminal
TRD11D1(*)WL	SPDT	On	None	On	1	Gold	Wire Lug	TRD13D1(*)WL	SPDT	On	None	On	1	Silver	Wire Lug
TRD11E1(*)WL	SPDT	On	Off	On	5	Gold	Wire Lug	TRD13E1(*)WL	SPDT	On	Off	On	5	Silver	Wire Lug
TRD11F1(*)WL	SPDT	On	None	(On)	1	Gold	Wire Lug	TRD13F1(*)WL	SPDT	On	None	(On)	1	Silver	Wire Lug
TRD21N1(*)WL	DPDT	On	None	On	2	Gold	Wire Lug	TRD23N1(*)WL	DPDT	On	None	On	2	Silver	Wire Lug
TRD21P1(*)WL	DP3T	On	Off	On	6	Gold	Wire Lug	TRD23P1(*)WL	DP3T	On	Off	On	6	Silver	Wire Lug
TRD21R1(*)WL	DPDT	On	None	(On)	2	Gold	Wire Lug	TRD23R1(*)WL	DPDT	On	None	(On)	2	Silver	Wire Lug
(*) Specify rocker color by adding suffix number: (0) Black (2) Red, (6) Blue (9) Yellow,								(On) indicates momentary position.							

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

(On) indicates momentary position.



TRD11D10WLLR

Standard Body and Rocker Color - (Black)

Model	Type	Function	Act. Code Pg. M8	Contact	Terminal	Model	Type	Function	Act. Code Pg. M8	Contact	Terminal				
TRD11D10WLLR(*)	SPDT	On	None	On	1	Gold	Wire Lug	TRD13D10WLLR(*)	SPDT	On	None	On	1	Gold	Wire Lug
TRD11E10WLLR(*)	SP3T	On	Off	On	5	Gold	Wire Lug	TRD13E10WLLR(*)	SP3T	On	Off	On	5	Gold	Wire Lug
TRD11F10WLLR(*)	SPDT	On	None	(On)	1	Gold	Wire Lug	TRD13F10WLLR(*)	SPDT	On	None	(On)	1	Gold	Wire Lug

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

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

E3

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.

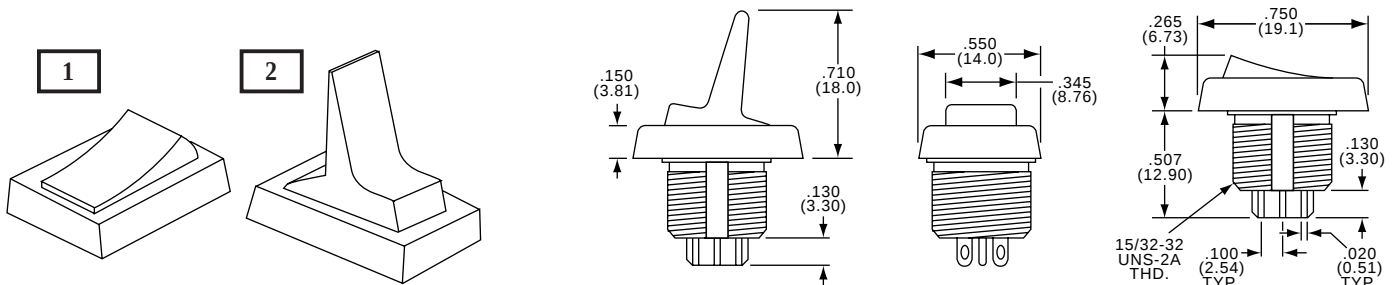
UL recognized under the Component Program of Underwriters Laboratories Inc. File #E46765

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			1		WL			☐ None Option L	
Single Pole		Single Pole	Rocker		Wire Lug		L	2 red	
TRD2			2		WW		Beveled frame adaptor	4 yellow	
Double Pole		Double Pole	Paddle		Wire Wrap		LR	5 green	
			0 black		QC Quick Connect		Integral w/rocker (TRD 1 only)	25 bi-color red/green	
			2 red		PC Printed Circuit				
			6 blue						
			9 yellow						
1									Functions: _____
Gold 0.4VA		Double Pole				☐ 15/32" round hole		Silver only	
3								D, F, N, & R	
Silver 3A						5 1/2" square hole		Terminations	
								Functions only	
								WL, WW or QC only	

ACTUATORS



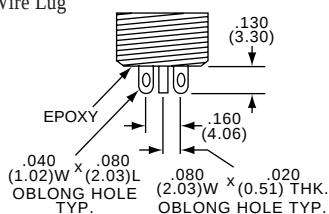
TRD Series

TERMINATIONS

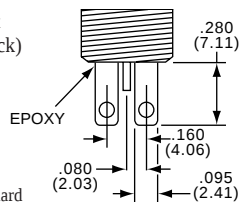
(Epoxy seal standard)



Wire Lug



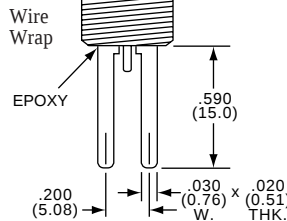
Quick Connect
.110" (.020 thick)



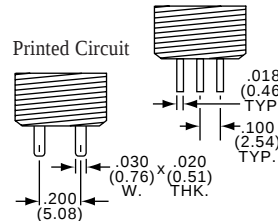
Mates with standard
.110" female connectors



22

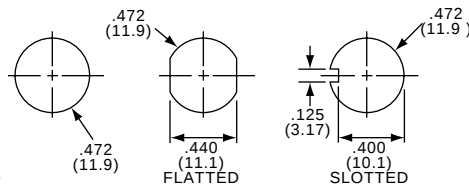


Printed Circuit



15/32" HOLE STANDARD

Standard TRD bushing will mount in any hole shown below.

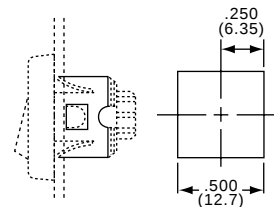


Recommended panel thickness:
.030" to .250"

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



0.4VA Max. @ 20 VDC

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



3A Max. @ 125 VAC

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



For contact option 3

Rating: 3A, 120 VAC(Resistive)

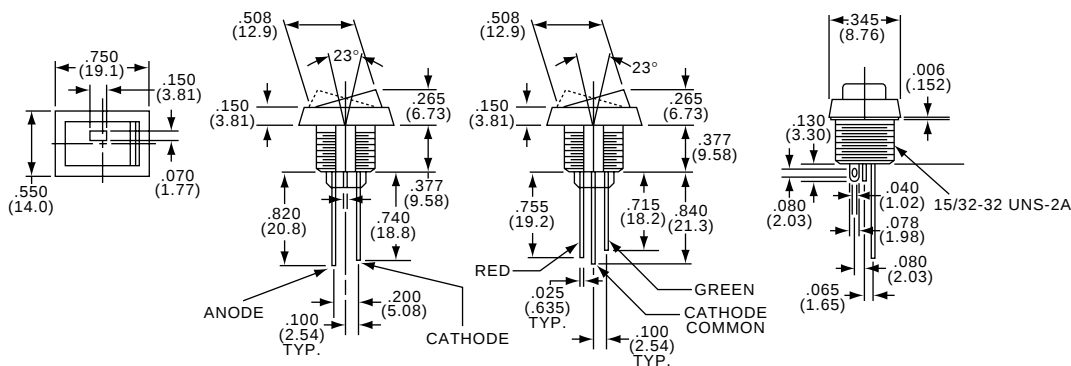
File: E46765

Underwriters Laboratories, Inc. marking stamped under beveled frame.

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



**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*

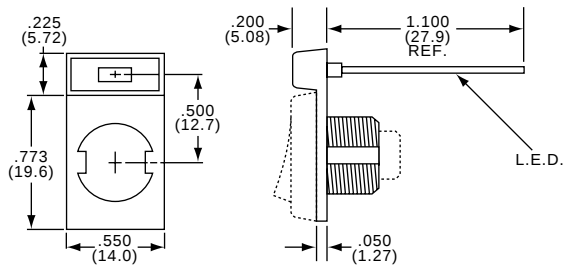
AUGAT Inc.

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

TRD Series *Rocker/Paddle • How To Order*

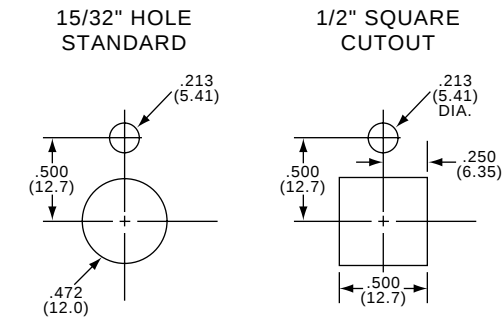
L

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"

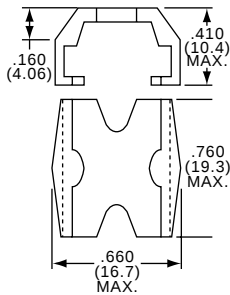
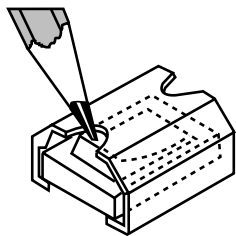
E

FUNCTIONS

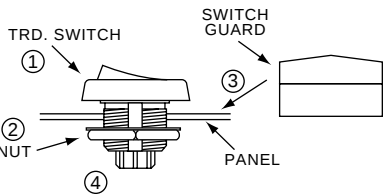
Single Pole	Double Pole			
		123 456	123 456	123 456
☐ D	☐ N	On	None	On
☐ E	☐ P	On	Off	On
☐ F	☐ R	On	None	(On)
☐ G	☐ S	(On)	Off	(On)
☐ H	☐ T	On	Off	(On)
SPDT Terminals Connected		2-3	---	1-2
DPDT Terminals Connected		2-3 5-6	---	1-2 4-5

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

SWITCH GUARD



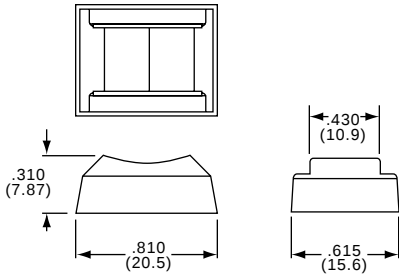
1. Insert switch in panel.
2. Attach lockwasher and hexnut.
3. Snap switch guard onto switch.
4. Tighten hex nut.



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