

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.

NOTE: Part numbering sequence page E4



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.



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.

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.

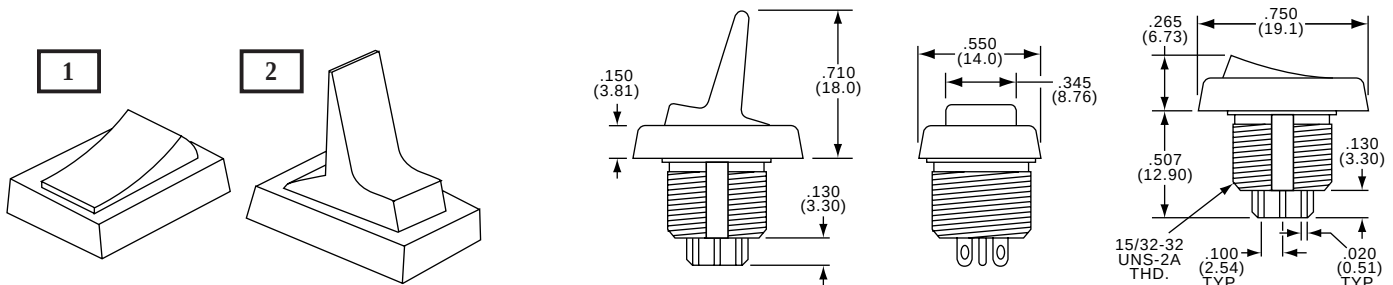
UL recognized under the Component Program of Underwriters Laboratories Inc. File #E46765

HOW TO ORDER

See pages M2-M4 for application specific indexing.

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ACTUATORS

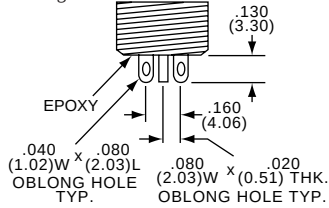


How To Order • Rocker/Paddle **TRD Series**

TERMINATIONS (Epoxy seal standard)

WL

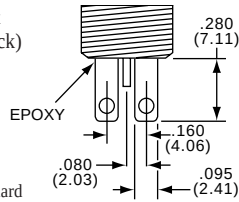
Wire Lug



QC

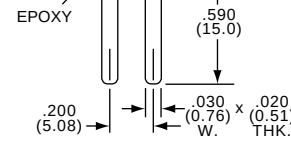
Quick Connect
.110" (.020 thick)

Mates with standard
.110" female connectors



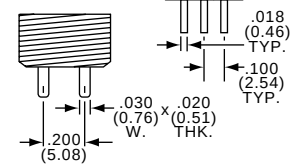
WW

Wire Wrap



PC

Printed Circuit

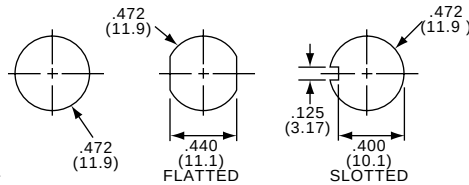


15/32" HOLE STANDARD

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.

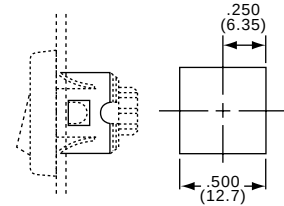


5

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



E

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

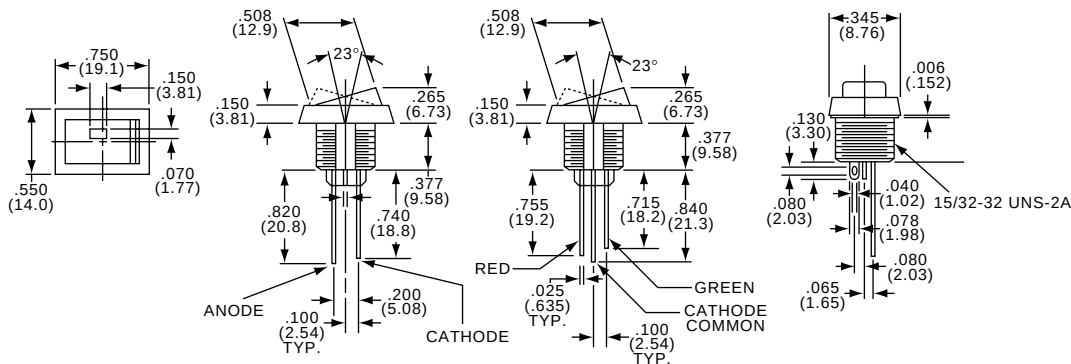
UL

For contact option 3
Rating: 3A, 120 VAC(Resistive)
File: E46765
Underwriters Laboratories, Inc. marking 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?

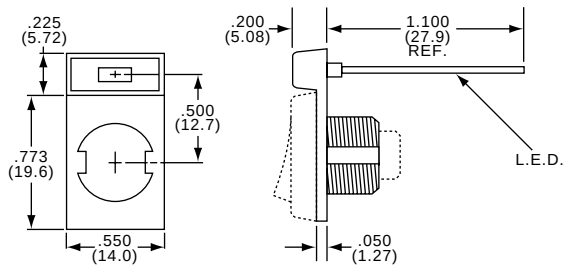
Consult your local Augat sales office
listed on the back cover

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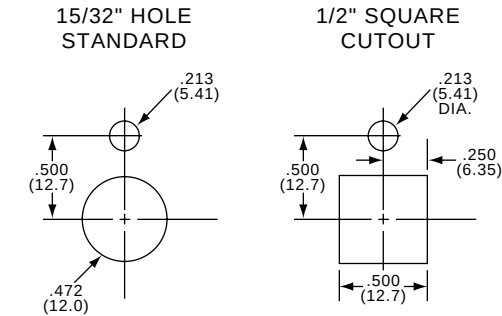
L

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"

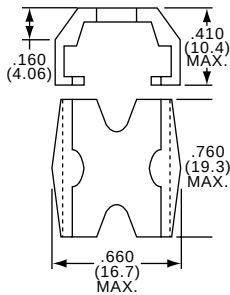
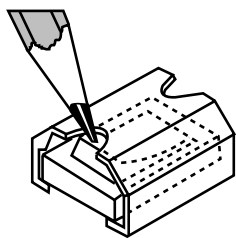
E

FUNCTIONS

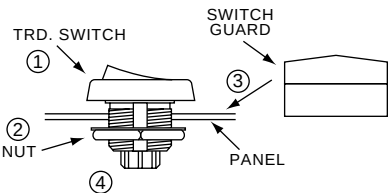
Single Pole	Double Pole	123 456	123 456	123 456
☐ D	☐ N	On	None	On
☐ E	☐ P	On	Off	On
☐ F	☐ R	On	None	(On)
☐ G	☐ S	(On)	Off	(On)
☐ H	☐ T	On	Off	(On)
SPDT Terminals Connected		2-3	---	1-2
DPDT Terminals Connected		2-3 5-6	---	1-2 4-5

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

SWITCH GUARD



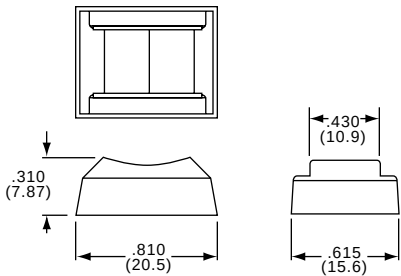
1. Insert switch in panel.
2. Attach lockwasher and hexnut.
3. Snap switch guard onto switch.
4. Tighten hex nut.



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