

Rocker/Paddle Switches, TRD Series Part Number Matrix

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	Polvamide, 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:

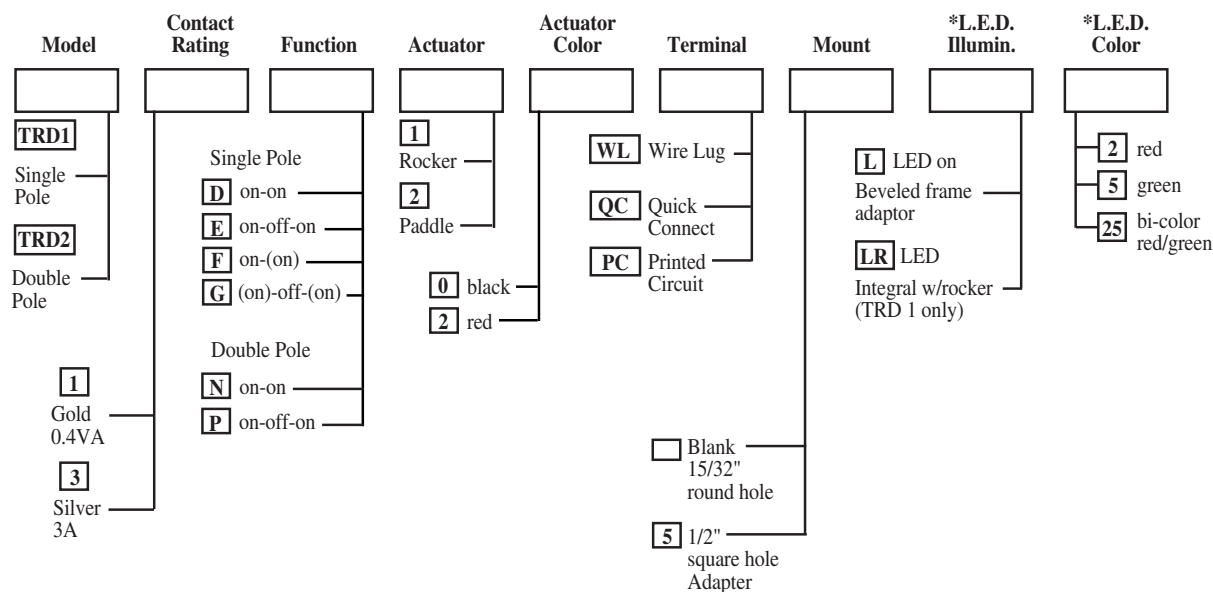
Contact Rating	Silver: 3A max. @ 125 VAC, option 3 Gold: 0.4VA max. @ 20 VDC, option 1
Initial Contact Resistance	20 Milliohms max.
Static Withstanding	15KV, per IEC 801-2
Insulation Resistance	1,000 Megohms min. @ 500 VDC
Dielectric Strength	500 Volts RMS @ sea level
Electrical Life	2 Pos. 20K cycles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

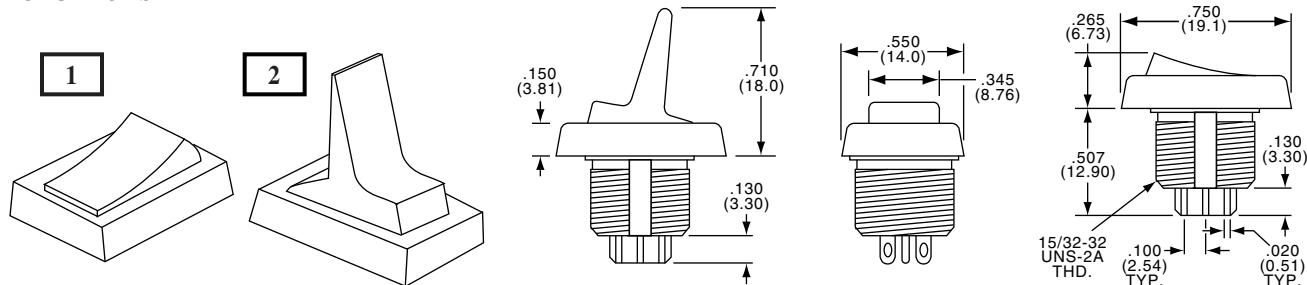
UL options available, consult Tyco Electronics Product Information Center

HOW TO ORDER

* Leave blank if LED not required.

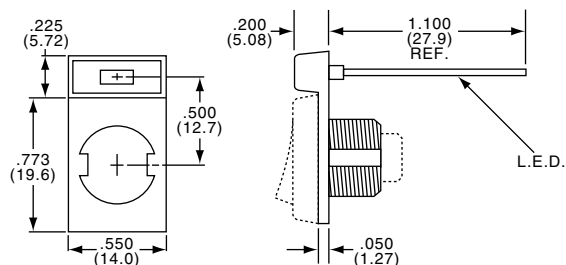


ACTUATORS



Rocker/Paddle Switches, TRD Series Options

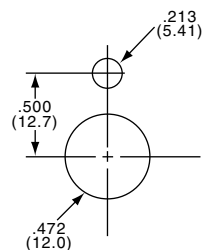
L L.E.D. BEVELED FRAME ADAPTOR (Accepts rectangular L.E.D.)



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

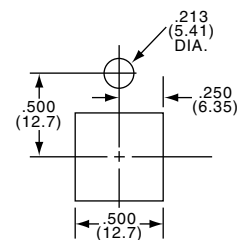
MOUNTING

15/32" HOLE STANDARD



**Recommended Panel
Thickness:** .030 to .220:

1/2" SQUARE CUTOUT



**Recommended Panel
Thickness:** .030 to .095"

FUNCTIONS

Single Pole	Double Pole			
		123 456	123 456	123 456
☐ D	☐ N	On	None	On
☐ E	☐ P	On	Off	On
☐ F		On	None	(On)
☐ G		(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, and
electrical connection

*** Refer to Pages F3-F5 for
Other Options ***

Rocker Switches, TRD Series Illuminated or Non-Illuminated, Wire Lug

MATERIAL SPECIFICATIONS:

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

ENVIRONMENTAL SPECIFICATIONS:

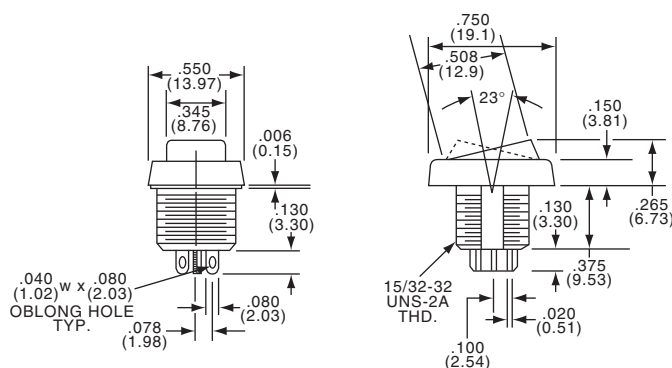
Operating Temperature.....-4°F to +176°F (-20°C to +80°C)
Storage Temperature.....-49°F to +199°F (-45°C to +93°C)

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. - Up to 100,000 actuations 3 Pos. - Up to 50,000 actuations

NOTE: Part numbering matrix page F3

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



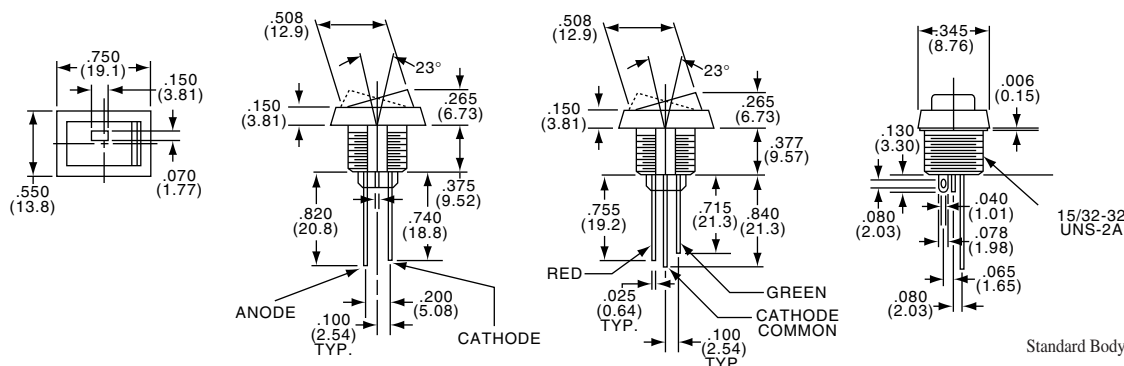
DPDT



TRD21N10WL

Standard Body Color - (Black)

Model	Type	Function			Act. Code Pg. M5	Contact	Terminal	Model	Type	Function			Act. Code Pg. M5	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	1	Gold	Wire Lug	TRD13F1(*)WL	SPDT	On	None	(On) 1	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	DPDT	On	Off	On	6	Gold	Wire Lug	TRD23P1(*)WL	DPDT	On	Off	On	6	Silver	Wire Lug
(*) Specify rocker color by adding suffix number: (0) Black (2) Red,								(On) indicates momentary position.							



SPDT



TRD11D10WLLR

Standard Body and Rocker Color - (Black)

ILLUMINATED

Model	Type	Function			Act. Code Pg. M5	Contact	Terminal
TRD11D10WLLR(*)	SPDT	On	None	On	1	Gold	Wire Lug
TRD11E10WLLR(*)	SPDT	On	Off	On	5	Gold	Wire Lug
TRD11F10WLLR(*)	SPDT	On	None	(On)	1	Gold	Wire Lug

(*) Specify LED color by adding suffix number: (2) Red, (5) Green, (25) Red/Green - Bi-color

(*) Specify LED color by adding suffix number: (2) Red, (5) Green, (25) Red/Green - Bi-color

ILLUMINATED

Model	Type	Function			Act. Code Pg. M5	Contact	Terminal
TRD13D10WLLR(*)	SPDT	On	None	On	1	Silver	Wire Lug
TRD13E10WLLR(*)	SPDT	On	Off	On	5	Silver	Wire Lug
TRD13F10WLLR(*)	SPDT	On	None	(On)	1	Silver	Wire Lug
(On) indicates momentary position.							

(On) indicates momentary position.