

**ISO IP69K
TOGGLE SWITCHES**

QUALITY AND ENDURANCE, GLOBALLY TESTED

QUALIFICATIONS

ISO-9001:2018 CERTIFIED

YEARS OF EXPERIENCE IN QUALITY ASSURANCE PROCEDURES. EACH COMPONENT GOES THROUGH A COMPLETE SOP INSPECTION.

HAZARDOUS AREA CERTIFICATION

RoHS 2011/65/EU & 2015/863

STANDARDS MET

ELECTRICAL RATING UL/CSA 1054, 61058-1,
EU ENEC15

RELIABILITY PERFORMANCE

COLD TEST

Stored at -30 degrees C for 48 hours, shall not result in changes to electrical performance

HEAT TEST

Stored at +85 degrees C for 48 hours, shall not result in changes to electrical performance

HUMIDITY TEST

Stored at temperature 40(+/-3)Celsius degree with relative humidity 90%~95% for 48 hours, shall not result changes to electrical performance

SOLDERING HEAT RESISTANCE

Max soldering temperature @ 260Celsius degree, immersion time 5 sec. No deformation on terminal or surrounding enclosure

IP69K TEST

Test is conducted by placing the product on a turntable that rotates every 12 seconds (5 rpm) and spraying 176F water from 4-6 in. at a flow rate of 4 gal per minute. The water pressure is between 1160-1450 psi and is sprayed at angles of 0, 30, 60, and 90 deg for 30 seconds each.

PERFORMANCE

ELECTRICAL RATING	8 A 125/250VAC μ T55 18 A 6-30 Vdc μ T55 5A, 125 Vac "L"
CONTACT RESISTANCE	20m Ω MAX (INITIAL)
INSULATION RESISTANCE	100M Ω MIN. (@500Vdc)
DIELECTRIC STRENGTH	1,500VAC 50/60 Hz for 1 minute
SERVICE LIFE	Mechanically: 100,000 operations minimum. Electrically: 30,000 operations minimum Operating temp: -30C to +80C

APPLICATIONS

CONSTRUCTION EQUIPMENT

TRUCK LIFT GATES

INDUSTRIAL PROCESSING EQUIPMENT

RAILROAD LOCOMOTIVES AND MAINTENANCE
EQUIPMENT

AGRICULTURAL MACHINERY

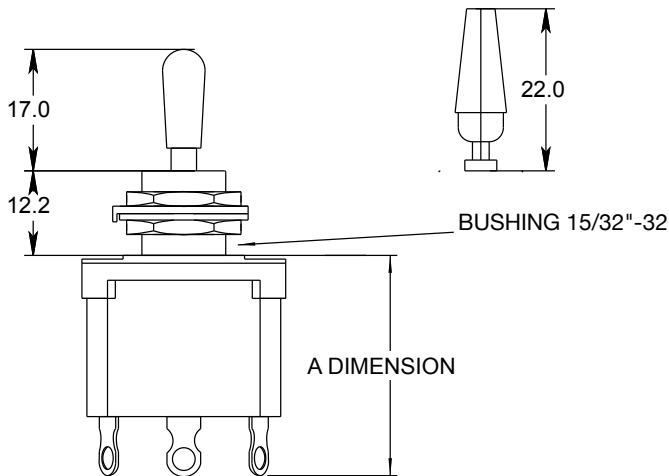
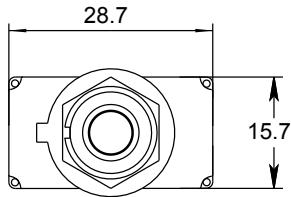
FOOD PROCESSING

AERIAL PLATFORM LIFTS

ANY ON/OFF ROAD EQUIPMENT AND VEHICLES
REQUIRING ENVIRONMENTAL PROTECTION TO IP69K

Single Pole

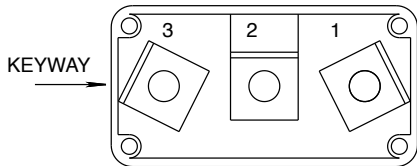
TC Series



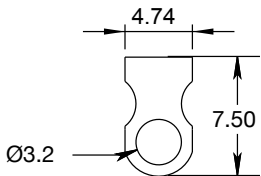
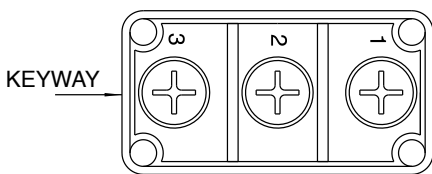
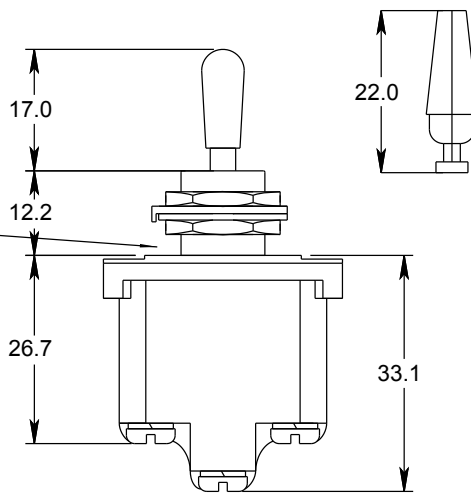
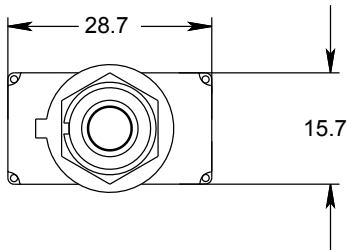
BUSHING 15/32"-32

A DIMENSION

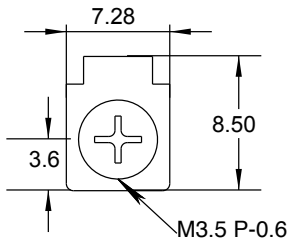
A DIMENSION
31.8 SOLDER TERMINAL
32.8 SCREW TAB
33.3 .187 Q.C.
35.0 .250 Q.C.



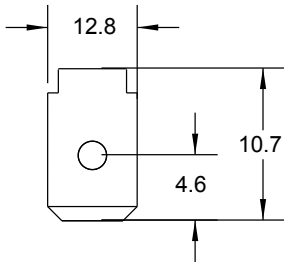
TS Series



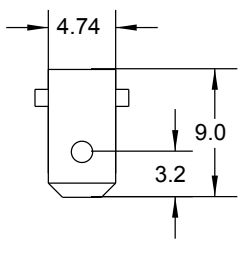
SOLDER



SCREW TAB



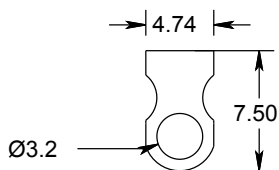
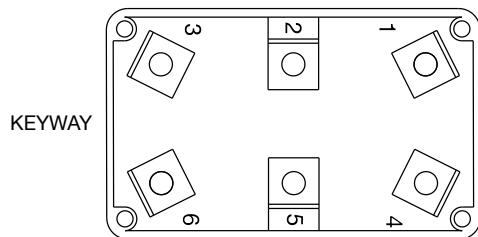
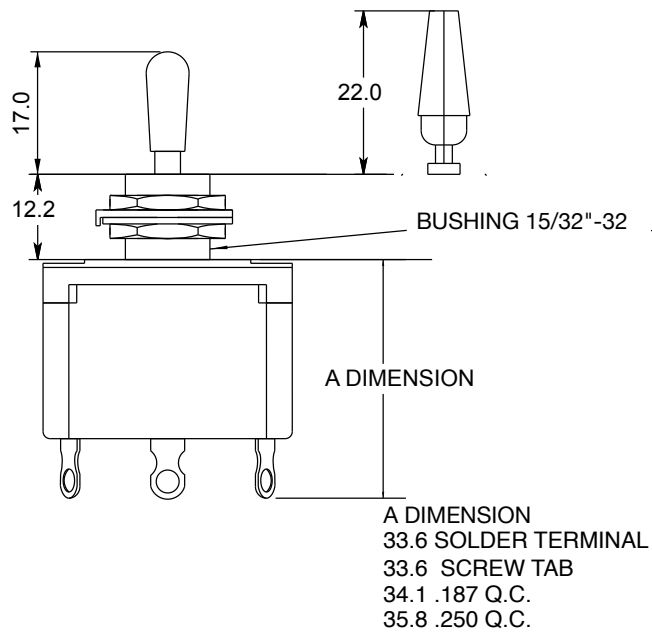
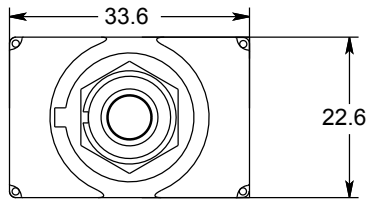
.250 Q.C



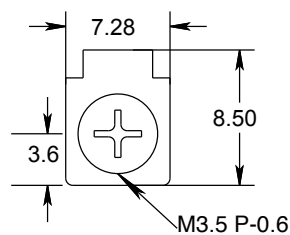
.187 Q.C

Double Pole

TC Series

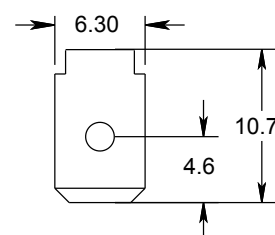
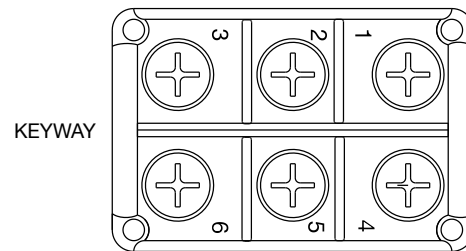
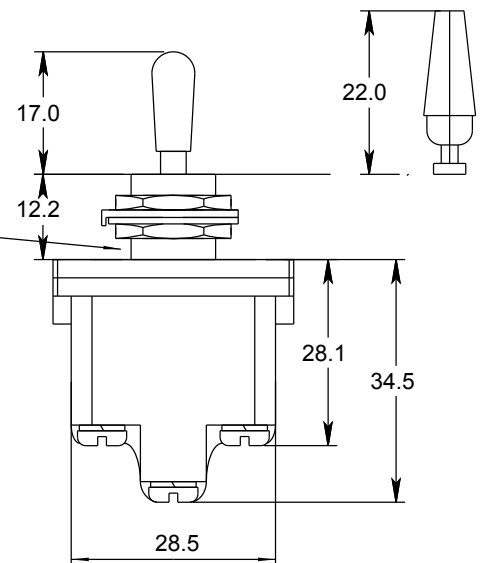
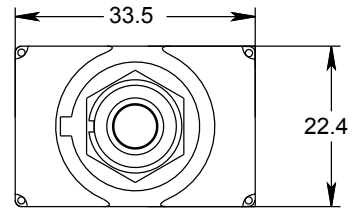


SOLDER

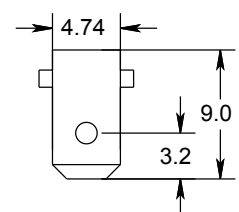


SCREW TAB

TS Series



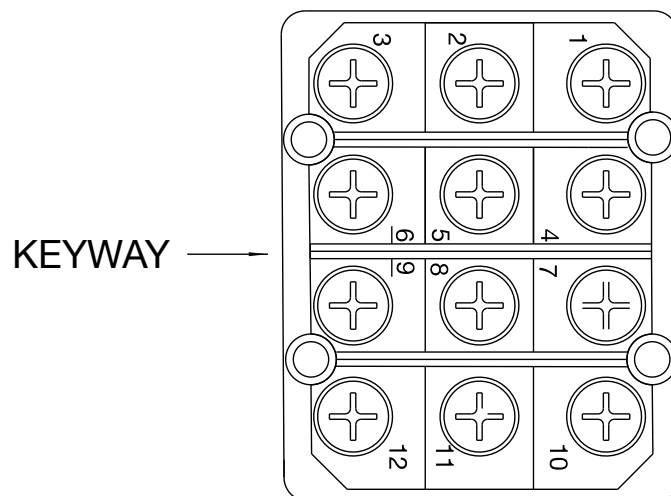
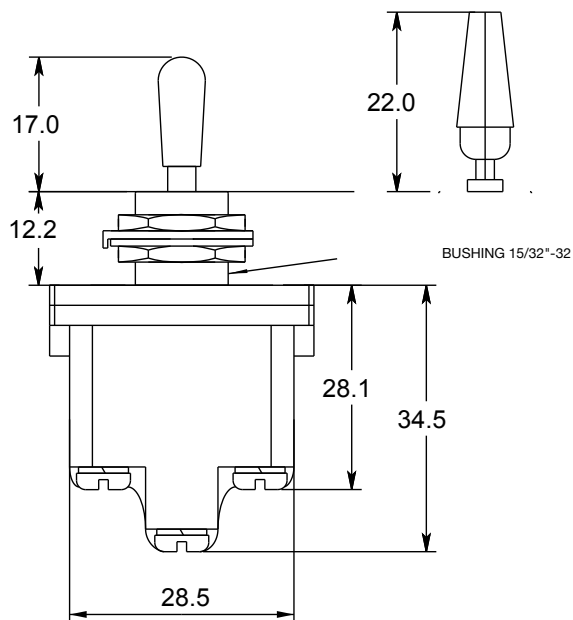
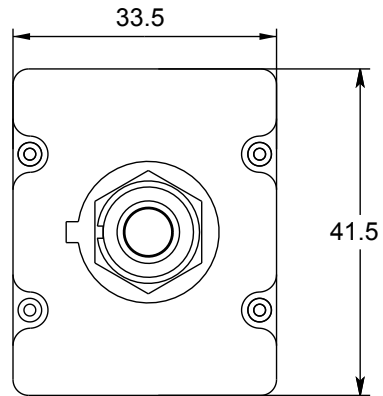
.250 Q.C



..187 Q.C

Four Pole

TS Series



TOTAL EXPOSURE PROTECTION

COMPLETE PROTECTION EPOXY BOOT

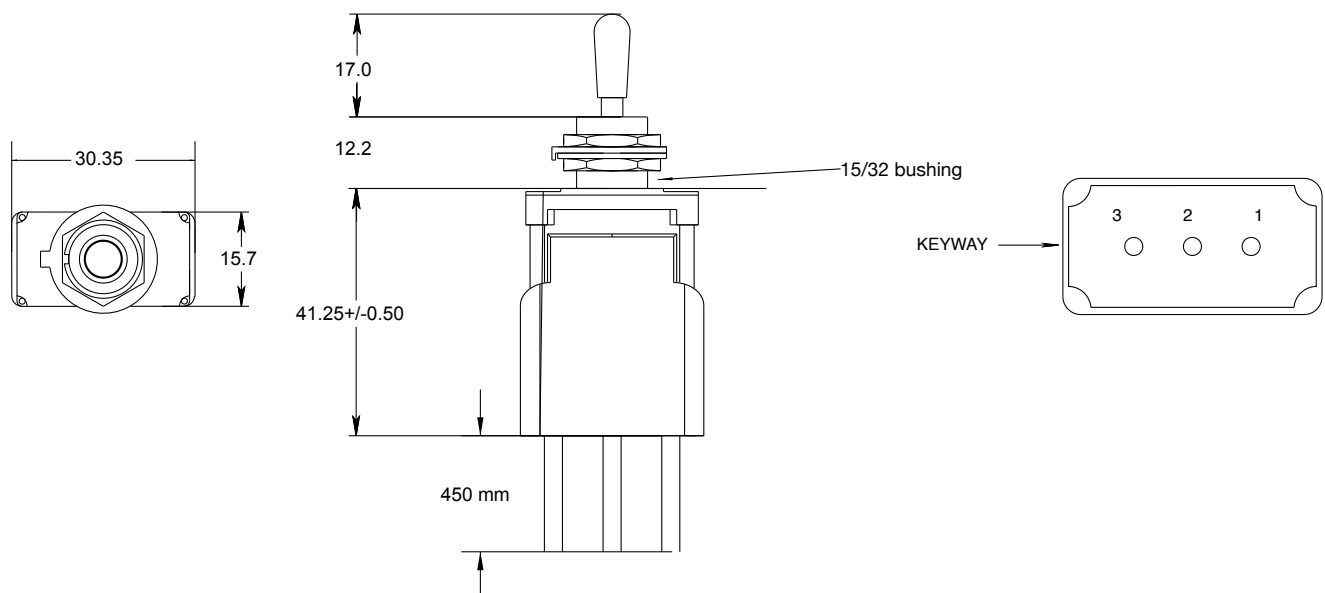


PROTECTS TERMINALS AND CONNECTIONS FROM ROAD SALTS AND OTHER ENVIRONMENTAL CHEMICALS WITHOUT THE USE OF ENCLOSURE.

ASSEMBLED WITH SOLDER TERMINALS.

AVAILABLE ON SINGLE AND DOUBLE POLE SWITCHES.

WIRE SPEC AND LENGTH AS PER REQUEST.



ACCESSORIES

BUSHING SEAL

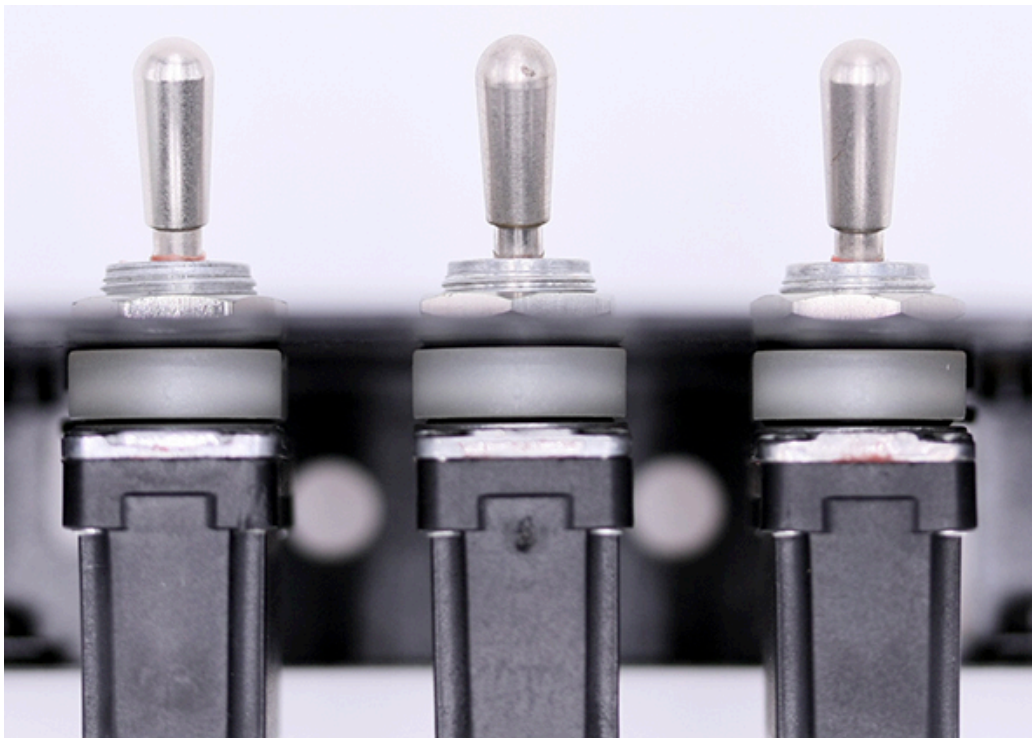


SINGLE-SIDED: BW-01

DOUBLE SIDED: BW-02

MATERIAL: SILICONE AND STAINLESS STEEL

SWITCH PANEL STAND OFF



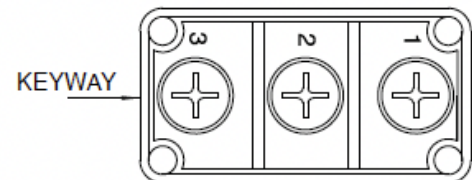
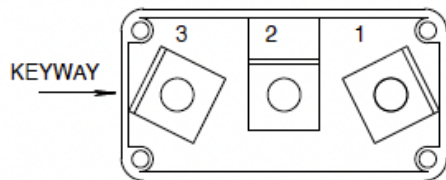
The stand off module allows you to install all your switches on the panel at a fixed, conforming height with the addition of two O-rings providing IP68 protection to panel mount.

MATERIAL: DELRIN AND BUNA N RUBBER

SINGLE POLE ORDER GUIDE

B IN ORDER CODE = NICKEL/BRASS LEVER, REPLACE **B** IN ORDER CODE WITH **P** FOR PLASTIC LEVER

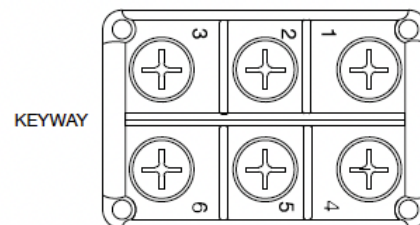
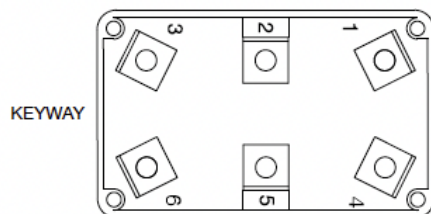
CIRCUITS MADE WITH TOGGLE AT: () DESIGNATES MOMENTARY			TS SERIES STEP BASE	TC SERIES FLAT BASE TERMINAL TYPE			
KEYWAY POSITION	CENTER POSITION	OPPOSITE KEYWAY	EMBEDDED THREADS	.250 Q.C.	.187 Q.C.	SOLDER	SCREW OFFSET
OFF		2-3	1TS-B2	1TC-B12	1TC-B22	1TC-B32	1TC-B42
1-2		2-3	1TS-B3	1TC-B13	1TC-B23	1TC-B33	1TC-B43
(OFF)		2-3	1TS-B4	1TC-B14	1TC-B24	1TC-B34	1TC-B44
(1-2)		OFF	1TS-B6	1TC-B16	1TC-B26	1TC-B36	1TC-B46
(1-2)		2-3	1TS-B8	1TC-B18	1TC-B28	1TC-B38	1TC-B48
OFF		(2-3)	1TS-B16	1TC-B116	1TC-B216	1TC-B316	1TC-B416
1-2		(2-3)	1TS-B18	1TC-B118	1TC-B218	1TC-B318	1TC-B418
1-2	OFF	2-3	1TS-B1	1TC-B11	1TC-B21	1TC-B31	1TC-B41
(1-2)	OFF	2-3	1TS-B5	1TC-B15	1TC-B25	1TC-B35	1TC-B45
1-2	OFF	(2-3)	1TS-B15	1TC-B115	1TC-B215	1TC-B315	1TC-B415
(1-2)	OFF	(2-3)	1TS-B7	1TC-B17	1TC-B27	1TC-B37	1TC-B47
	OFF	2-3	1TS-B21	1TC-B121	1TC-B221	1TC-B321	1TC-B421
	1-2	2-3	1TS-B31	1TC-B131	1TC-B231	1TC-B331	1TC-B431
	1-2	(2-3)	1TS-B51	1TC-B151	1TC-B251	1TC-B351	1TC-B451
(1-2)	OFF		1TS-B61	1TC-B161	1TC-B261	1TC-B361	1TC-B461



DOUBLE POLE ORDER GUIDE

B IN ORDER CODE = NICKEL/BRASS LEVER REPLACE **B** IN ORDER CODE WITH **P** FOR PLASTIC LEVER.

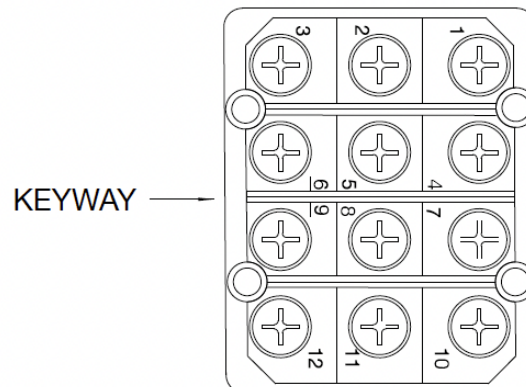
CIRCUITS MADE WITH TOGGLE AT: () DESIGNATES MOMENTARY			TS SERIES STEP BASE	TC SERIES FLAT BASE TERMINAL TYPE			
KEYWAY POSITION	CENTER POSITION	OPPOSITE KEYWAY	EMBEDDED THREADS	.250 Q.C.	.187 Q.C.	SOLDER	SCREW OFFSET
OFF		2-3, 5-6	2TS-B2	2TC-B12	2TC-B22	2TC-B32	2TC-B42
1-2, 4-5		2-3, 5-6	2TS-B3	2TC-B13	2TC-B23	2TC-B33	2TC-B43
(OFF)		2-3, 5-6	2TS-B4	2TC-B14	2TC-B24	2TC-B34	2TC-B44
(1-2, 4-5)		OFF	2TS-B6	2TC-B16	2TC-B26	2TC-B36	2TC-B46
(1-2, 4-5)		2-3, 5-6	2TS-B8	2TC-B18	2TC-B28	2TC-B38	2TC-B48
OFF		(2-3, 5-6)	2TS-B16	2TC-B116	2TC-B216	2TC-B316	2TC-B416
1-2, 4-5		(2-3, 5-6)	2TS-B18	2TC-B118	2TC-B218	2TC-B318	2TC-B418
1-2, 4-5	OFF	2-3, 5-6	2TS-B1	2TC-B11	2TC-B21	2TC-B31	2TC-B41
(1-2, 4-5)	OFF	2-3, 5-6	2TS-B5	2TC-B15	2TC-B25	2TC-B35	2TC-B45
1-2, 4-5	OFF	(2-3, 5-6)	2TS-B15	2TC-B115	2TC-B215	2TC-B315	2TC-B415
(1-2, 4-5)	OFF	(2-3, 5-6)	2TS-B7	2TC-B17	2TC-B27	2TC-B37	2TC-B47
	OFF	2-3, 5-6	2TS-B21	2TC-B121	2TC-B221	2TC-B321	2TC-B421
	1-2, 4-5	2-3, 5-6	2TS-B31	2TC-B131	2TC-B231	2TC-B331	2TC-B431
	1-2, 4-5	(2-3, 5-6)	2TS-B51	2TC-B151	2TC-B251	2TC-B351	2TC-B451
(1-2, 4-5)	OFF		2TS-B61	2TC-B161	2TC-B261	2TC-B361	2TC-B461
1-2, 4-5	2-3, 4-5	2-3, 5-6	2TS-B12	2TC-B112	2TC-B212	2TC-B312	2TC-B412
1-2, 4-5	1-2, 5-6	2-3, 5-6	2TS-B10	2TC-B110	2TC-B210	2TC-B310	2TC-B410
(1-2, 4-5)	1-2, 5-6	2-3, 5-6	2TS-B50	2TC-B150	2TC-B250	2TC-B350	2TC-B450
(1-2, 4-5)	2-3, 4-5	2-3, 5-6	2TS-B52	2TC-B152	2TC-B252	2TC-B352	2TC-B452
(1-2, 4-5)	1-2, 5-6	(2-3, 5-6)	2TS-B70	2TC-B170	2TC-B270	2TC-B370	2TC-B470
(1-2, 4-5)	2-3, 4-5	(2-3, 5-6)	2TS-B72	2TC-B172	2TC-B272	2TC-B372	2TC-B472



FOUR POLE ORDER GUIDE

B IN ORDER CODE = NICKEL/BRASS LEVER REPLACE **B** IN ORDER CODE WITH **P** FOR PLASTIC LEVER.

CIRCUITS MADE WITH TOGGLE AT: () DESIGNATES MOMENTARY			TS SERIES STEP BASE
KEYWAY POSITION	CENTER POSITION	OPPOSITE KEYWAY	EMBEDDED THREADS
OFF		2-3, 5-6, 8-9, 11-12	4TS-B2
1-2, 4-5, 7-8, 10-11		2-3, 5-6, 8-9, 11-12	4TS-B3
(OFF)		2-3, 5-6, 8-9, 11-12	4TS-B4
(1-2, 4-5, 7-8, 10-11)		OFF	4TS-B6
(1-2, 4-5, 7-8, 10-11)		2-3, 5-6, 8-9, 11-12	4TS-B8
OFF		(2-3, 5-6, 8-9, 11-12)	4TS-B16
1-2, 4-5, 7-8, 10-11		(2-3, 5-6, 8-9, 11-12)	4TS-B18
1-2, 4-5, 7-8, 10-11	OFF	2-3, 5-6, 8-9, 11-12	4TS-B1
(1-2, 4-5, 7-8, 10-11)	OFF	2-3, 5-6, 8-9, 11-12	4TS-B5
(1-2, 4-5, 7-8, 10-11)	OFF	(2-3, 5-6, 8-9, 11-12)	4TS-B7
1-2, 4-5, 7-8, 10-11	OFF	(2-3, 5-6, 8-9, 11-12)	4TS-B15
	OFF	2-3, 5-6, 8-9, 11-12	4TS-B21
	1-2, 4-5, 7-8, 10-11	2-3, 5-6, 8-9, 11-12	4TS-B31
	1-2, 4-5, 7-8, 10-11	(2-3, 5-6, 8-9, 11-12)	4TS-B51
(1-2, 4-5, 7-8, 10-11)	OFF		4TS-B61
1-2, 4-5, 7-8, 10-11	2-3, 4-5, 8-9, 10-11	2-3, 5-6, 8-9, 11-12	4TS-B12
1-2, 4-5, 7-8, 10-11	1-2, 5-6, 7-8, 11-12	2-3, 5-6, 8-9, 11-12	4TS-B10
(1-2, 4-5, 7-8, 10-11)	1-2, 5-6, 7-8, 11-12	2-3, 5-6, 8-9, 11-12	4TS-B50
(1-2, 4-5, 7-8, 10-11)	2-3, 4-5, 8-9, 10-11	2-3, 5-6, 8-9, 11-12	4TS-B52
(1-2, 4-5, 7-8, 10-11)	1-2, 5-6, 7-8, 11-12	(2-3, 5-6, 8-9, 11-12)	4TS-B70
(1-2, 4-5, 7-8, 10-11)	2-3, 4-5, 8-9, 10-11	(2-3, 5-6, 8-9, 11-12)	4TS-B72





LEGACEE SWITCH

