

CERTIFICATE OF CONFORMITY



Member of the FM Global Group

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM21US0099X
3. **Equipment:** Liquid Level Limit Switches and Boiler Water Level Controls
(Type Reference and Name)
4. **Name of Listing Company:** AMETEK Magnetrol USA LLC
5. **Address of Listing Company:** 705 Enterprise St,
Aurora, Illinois 60504, USA

6. The examination and test results are recorded in confidential report number:

0J2A9AF dated 19th August 1987

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3615:2022, FM 3616:2022, FM 3810:2021, FM 7710:2021, NEMA 250:2018,
ANSI/IEC 60529:2020, ANSI/UL 61010-1:2019, ANSI/ISA 122701:2003

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Equipment Ratings:**

See Annex

11. **The marking of the equipment shall include:**

See Annex

12. **Description of Equipment:**

The Liquid Level Switches and Boiler Water Level Controls are used in multiple variations. The enclosure materials consist of carbon steel (Type 4X only), cast aluminum and cast iron. Threaded field wiring entries are

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

19 January 2024

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
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available with 3/4" NPT (carbon steel), Metric M20x1.5 or 1"x11.5 NPT (aluminum) and 1"x11.5 NPT (cast iron). For specific product information, refer to the installation and operation manuals listed below:

- Side Mounting Liquid Level Controls
- Model T20 and T21 Top Mounting Liquid Level Switches
- Model B40 Liquid Level Switch
- Flanged External Cage
- Model B73 Series Liquid Level Controls
- Series 3 B31.3
- Series 3 B31.1
- Boiler Controls - Liquid Level Switches
- External Cage Displacer Actuated Liquid Level Switch
- Models F10 and F50 Flow Switches
- Displacer Type Liquid Level Switches
- B74 Liquid Level Controls
- Model 741 series liquid level controls
- Model 75 series liquid level controls
- Model 24 level control
- Model H high pressure liquid level controls

13. Specific Conditions of Use:

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.
2. Refer to the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the equipment enclosure.
3. The cast iron enclosure for North American certification does not contain a Type 4X rating.
4. For installation with ambient temperature of +70°C, refer to the manufacturer's instruction for guidance on proper selection of conductors.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

| Date | Description |
|----------------|-----------------|
| 19 August 1987 | Original Issue. |

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| Date | Description |
|-----------------|--|
| 4 April 2023 | <u>Supplement 6:</u> Report Reference: - PR460002 dated 4 April 2023. Description of the Change: Addition of new switch options and re-exam of enclosures. |
| 19 January 2024 | <u>Supplement 7:</u> Report Reference: RR238290 dated 19 January 2024. Description of the Change(s): Minor drawing changes not affecting safety. |

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ANNEX

Boiler Water Level Controls. abc-defg-hij

Equipment Ratings:

Enclosures (3 types):

- 1) Material: carbon steel cover with aluminum base, x-tall – Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection Type 4X
- 2) Material: cast aluminum, cover with base, x-tall – Explosionproof for Class I, Division 1, Groups B, C and D T6...T1; Dust-Ignitionproof for Class II, III, Division 1, Groups E, F and G, T6...T1; hazardous (classified) locations. Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection Type 4X, IP66; Single Seal.
- 3) Material: cast iron, cover with base, x-tall - Explosionproof for Class I, Division 1, Groups B, C and D T6...T1; Dust-Ignitionproof for Class II, III, Division 1, Groups E, F and G, T6...T1; hazardous (classified) locations. Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection IP66; Single Seal.

Single Seal; MWP rated up to 1000 psi

Markings:

Enclosures (3 types):

- 1) Material: carbon steel cover with aluminum base, x-tall - Type 4X
- 2) Material: cast aluminum, cover with base, x-tall - Class I, Division 1, Groups B, C and D T6...T1; Class II, III, Division 1, Groups E, F and G T6...T1 $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$; Type 4X, IP66; Single Seal.
- 3) Material: cast iron, cover with base, x-tall - Class I, Division 1, Groups B, C and D T6...T1, Class II, III, Division 1, Groups E, F and G T6...T1 $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$; IP66; Single Seal.

Description of Equipment:

| | |
|------|---|
| abc | Model Numbers: B3F, B24, B25, B35, B60, B72, B75, C24, V35, V75, W25, W29, Z35, and Z75. |
| defg | Process Connection Configuration (outside of Approval): Any 4-digit alphanumeric character. |
| hij | Switch and Enclosure: 3-digit variables located in the tables below |

Note: The Switch Code Table below represents variables hij in the model code.

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| Switch Type | Housing Height & Options | Switch Contact | Set Pt. | Magnet Dot Color | Type 4X Cast /Alum 3/4" NPT | CI 1, Div. 1, Group C & D Cast Iron | Type 4X Cast /Alum 1" NPT | CI 1, Div. 1, Group C & D Cast Alum M20 x 1.5 | CI 1, Div. 1, Group C & D Cast Alum 1" NPT | CI 1, Div. 1, Group B, C & D Cast Iron | CI 1, Div. 1, Group B, C & D Cast Alum 1" NPT | | | | |
|-------------|--------------------------|----------------|---------|------------------|-----------------------------|-------------------------------------|---------------------------|---|--|--|---|-----|-----|-----|-----|
| Series B | Short | SPDT | 1 | Yellow | BAY | BKY | BAQ | B2Q | BKQ | — | BKS | | | | |
| | | | | Red | BAR | BKR | BAP | B2P | BKP | — | BKT | | | | |
| | | | Tall | | | Yellow | BAM | BKM | BAB | B2B | BKB | BKW | BKK | | |
| | | | | | | Red | BAD | BKD | BAA | B2A | BKA | BKV | BKJ | | |
| | | | | | | 2 | Yellow | BBM | BLM | BBB | B4B | BLB | BLW | BLK | |
| | | | | | | | Red | BBD | BLD | BBA | B4A | BLA | BLV | BLJ | |
| | | | | | | 3 | Yellow | BCM | BMM | BCB | B6B | BMB | BMW | BMK | |
| | | | | | | | Red | BCD | BMD | BCA | B6A | BMA | BMV | BMJ | |
| | Short | DPDT | | 1 | Yellow | BDY | BNY | BDQ | B8Q | BNQ | — | BNS | | | |
| | | | | | Red | BDR | BNR | BDP | B8P | BNP | — | BNT | | | |
| | | | | Tall | | | | Yellow | BDM | BNM | BDB | B8B | BNB | BNW | BNK |
| | | | | | | | | Red | BDD | BND | BDA | B8A | BNA | BNV | BNJ |
| | | | | | | | 2 | Yellow | BEM | BOM | BEB | B1B | BOB | BOW | BOK |
| | | | | | | | | Red | BED | BOD | BEA | B1A | BOA | BOV | BOJ |
| | | | | Tall | | | 1 | Yellow | CAY | CKY | CAQ | C2Q | CKQ | — | CKS |
| | | | | | | | | Red | CAR | CKR | CAP | C2P | CKP | — | CKT |
| | | | | | | | Yellow | CAM | CKM | CAB | C2B | CKB | CKW | CKK | |
| | | | | | | | Red | CAD | CKD | CAA | C2A | CKA | CKV | CKJ | |
| | | | 2 | | | | Yellow | CBM | CLM | CBB | C4B | CLB | CLW | CLK | |
| | | | | | | | Red | CBD | CLD | CBA | C4A | CLA | CLV | CLJ | |
| | | | 3 | Yellow | CCM | CMM | CCB | C6B | CMB | CMW | CMK | | | | |
| | | | | Red | CCD | CMD | CCA | C6A | CMA | CMV | CMJ | | | | |

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|----------|----------|-------|-------------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series C | Short | DPDT | 1 | Yellow | CDY | CNY | CDQ | C8Q | CNQ | — | CNS | | |
| | | | | Red | CDR | CNR | CDP | C8P | CNP | — | CNT | | |
| | Tall | | 1 | Yellow | CDM | CNM | CDB | C8B | CNB | CNW | CNK | | |
| | | | | Red | CDD | CND | CDA | C8A | CNA | CNV | CNJ | | |
| | 2 | | Yellow | CEM | COM | CEB | C1B | COB | COW | COK | | | |
| | | | Red | CED | COD | CEA | C1A | COA | COV | COJ | | | |
| Series D | Short | SPDT | 1 | Yellow | DAY | DKY | DAQ | D2Q | DKQ | — | DKS | | |
| | | | | Yellow | DAM | DKM | DAB | D2B | DKB | DKW | DKK | | |
| | Tall | | 2 | Yellow | DBM | DLM | DBB | D4B | DLB | DLW | DLK | | |
| | | | | Yellow | DCM | DMM | DCB | D6B | DMB | DMW | DMK | | |
| | Short | | DPDT | 1 | Yellow | DDY | DNY | DDQ | D8Q | DNQ | — | DNS | |
| | | | | | Yellow | DDM | DNM | DDB | D8B | DNB | DNW | DNK | |
| | Tall | 2 | | Yellow | DEM | DOM | DEB | D1B | DOB | DOW | DOK | | |
| | | | | Yellow | FAY | FKY | FAQ | F2Q | FKQ | — | FKS | | |
| | Series F | Short | | SPDT | 1 | Red | FAR | FKR | FAP | F2P | FKP | — | FKT |
| | | | | | | Yellow | FAM | FKM | FAB | FCB | FKB | FKW | FKK |
| | | Tall | 2 | | Red | FAD | FKD | FAA | FCA | FKA | FKV | FKJ | |
| | | | | | Yellow | FBM | FLM | FBB | FFB | FLB | FLW | FLK | |
| Short | | DPDT | 1 | | Red | FBD | FLD | FBA | FFA | FLA | FLV | FLJ | |
| | | | | | Yellow | FDY | FNY | FDQ | F8Q | FNQ | — | FNS | |
| Tall | | | 2 | Red | FDR | FNR | FDP | F8P | FNP | — | FNT | | |
| | | | | Yellow | FDM | FNM | FDB | FGB | FNB | FNW | FNK | | |
| Short | | | 2 | Red | FDD | FND | FDA | FGA | FNA | FNV | FNJ | | |
| | | | | Yellow | FEM | FOM | FEB | FHB | FOB | FOV | FOK | | |
| Tall | | 2 | Red | FED | FOD | FEA | FHA | FOA | FOV | FOJ | | | |
| | | | Series F w/ | | | | | | | | | | |

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|----------------------|--------|----------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|---|
| 10' Wire Leads | Short | SPDT | 1 | Yellow | FA2 | FK2 | — | — | FKH | — | — | | |
| | | | | Red | FA1 | FK1 | — | — | FKG | — | — | | |
| | Tall | | 2 | Yellow | FA4 | FK4 | — | — | FKN | — | — | | |
| | | | | Red | FA3 | FK3 | — | — | FKL | — | — | | |
| | Short | 1 | | Yellow | FB4 | FL4 | — | — | FLN | — | — | | |
| | | | | Red | FB3 | FL3 | — | — | FLL | — | — | | |
| | | 2 | Yellow | FD2 | FN2 | — | — | FNH | — | — | | | |
| | | | Red | FD1 | FN1 | — | — | FNG | — | — | | | |
| | | | Tall | Yellow | FD4 | FN4 | — | — | FNN | — | — | | |
| | | | | Red | FD3 | FN3 | — | — | FNL | — | — | | |
| Series G | Tall | SPDT | 1 | Yellow | FE4 | FO4 | — | — | FON | — | — | | |
| | | | | Red | FE3 | FO3 | — | — | FOL | — | — | | |
| | | | DPDT | 2 | Yellow | GAM | GKM | — | — | — | GKW | — | |
| | | | | | Red | GAD | GKD | — | — | — | GKV | — | |
| | | Series H | Tall | SPDT | 1 | Yellow | GDM | GNM | — | — | — | GNW | — |
| | | | | | | Red | GDD | GND | — | — | — | GNV | — |
| DPDT | 2 | | | Yellow | HAM | HKM | — | — | — | HKW | — | | |
| | | | | Red | HAD | HKD | — | — | — | HKV | — | | |
| Series I | Tall | SPDT | 1 | Yellow | HDM | HNM | — | — | — | HNW | — | | |
| | | | | Red | HDD | HND | — | — | — | HNV | — | | |
| | | DPDT | 2 | Yellow | IAM | IKM | — | — | — | IKW | — | | |
| | | | | Red | IAD | IKD | — | — | — | IKV | — | | |
| Series C for C10/C15 | X-Tall | SPDT | 3 | Yellow | IDM | INM | — | — | — | INW | — | | |
| | | | | Red | IDD | IND | — | — | — | INV | — | | |
| | | DPDT | 4 | Yellow | OCM | OMM | OCB | — | OMB | OMI | OMN | | |
| | | | | Red | OEM | OKM | OEB | — | OKB | OKI | OKN | | |

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| Series B for C10/C15 | X-Tall | SPDT | 3 | Yellow | QCM | QMM | QCB | — | QMB | QMI | QMN | | |
| | | DPDT | | | QEM | QKM | QEB | — | QKB | QKI | QKN | | |
| Series C | Tall | Grp IV SPDT | 1 | Yellow | SAM | SKM | SAB | S2B | SKB | SKW | SKK | | |
| | | Grp IV DPDT | | | SDM | SNM | SDB | S8B | SNB | SNW | SNK | | |
| Series D | Grp IV SPDT | SBM | | | SLM | SBB | S2R | SLB | SLW | SLK | | | |
| | Grp IV DPDT | SEM | | | SOM | SEB | S8R | SOB | SOW | SOK | | | |
| Series U | Short | SPDT | 1 | Yellow | UAY | UKY | UAQ | U2Q | UKQ | — | — | | |
| | | | | Red | UAR | UKR | UAP | U2P | UKP | — | — | | |
| | | | | Tall | Yellow | UAM | UKM | UAB | U2B | UKB | UKW | — | |
| | | | | | Red | UAD | UKD | UAA | U2A | UKA | — | — | |
| | 2 | | Yellow | UBM | ULM | UBB | U4B | ULB | ULW | — | | | |
| | | | Red | UBD | ULD | UBA | U4A | ULA | — | — | | | |
| | | | 3 | Yellow | UCM | UMM | UCB | U6B | UMB | UMW | — | | |
| | | | | Red | UCD | UMD | UCA | U6A | UMA | — | — | | |
| | Short | DPDT | 1 | Yellow | UDY | UNY | UDQ | U8Q | UNQ | — | — | | |
| | | | | Red | UDR | UNR | UDP | U8P | UNP | — | — | | |
| | | | | Tall | Yellow | UDM | UNM | UDB | U8B | UNB | UNW | — | |
| | | | | | Red | UDD | UND | UDA | U8A | UNA | — | — | |
| | 2 | | Yellow | UEM | UOM | UEB | U1B | UOB | UOW | — | | | |
| | | | Red | UED | UOD | UEA | U1A | UOA | — | — | | | |
| | | | Series W | Short | 1 | Yellow | WAY | WKY | WAQ | W2Q | WKQ | — | WKS |
| | | | | | | Red | WAR | WKR | WAP | W2P | WKP | — | WKT |
| Tall | Yellow | WAM | WKM | WAB | | W2B | WKB | WKW | WKK | | | | |
| | Red | WAD | WKD | WAA | | W2A | WKA | — | — | | | | |
| 2 | Yellow | WBM | WLM | WBB | W4B | WLB | WLW | WLK | | | | | |

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|--------------------------------------|-------------------------------|------|-------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| Series W | Series W | SPDT | 2 | SPDT | Red | WBD | WLD | WBA | W4A | WLA | — | | | |
| | | | 3 | | Yellow | WCM | WMM | WCB | W6B | WMB | WMW | WMK | | |
| | | | | | Red | WCD | WMD | WCA | W6A | WMA | — | — | | |
| | | | Short | DPDT | 1 | Yellow | WDY | WNY | WDQ | W8Q | WNQ | — | WNS | |
| | | | | | | Tall | Yellow | WDM | WNM | WDB | W8B | WNB | WNW | WNK |
| | | | | | 2 | Yellow | WEM | WOM | WEB | W1B | WOB | WOW | WOK | |
| Series X | Short | SPDT | 1 | Yellow | XAY | XKY | XAQ | X2Q | XKQ | — | XKS | | | |
| | | | | Red | XAR | XKR | XAP | X2P | XKP | — | XKT | | | |
| | | | | Yellow | XAM | XKM | XAB | X2B | XKB | XKW | XKK | | | |
| | | | | Red | XAD | XKD | XAA | X2A | XKA | — | — | | | |
| | | | | Yellow | XBM | XLM | XBB | X4B | XLB | XLW | XLK | | | |
| | | | | Red | XBD | XLD | XBA | X4A | XLA | — | — | | | |
| | | Tall | SPDT | 2 | Yellow | XCM | XMM | XCB | X6B | XMB | XMW | XMK | | |
| | Red | | | | XCD | XMD | XCA | X6A | XMA | — | — | | | |
| | Short | | | | DPDT | 1 | Yellow | XDY | XNY | XDQ | X8Q | XNQ | — | XNS |
| | | | | | | | | Tall | XDM | XNM | XDB | X8B | XNB | XNW |
| | | | | | | | 2 | XEM | XOM | XEB | X1B | XOB | XOW | XOK |
| | Series HS w/ Wire Leads | | | | Short | SPDT | 1 | Yellow | HSB | HSC | HMB | — | HMC | — |
| HSE | | HSF | HME | — | | | | | HMF | — | HET | | | |
| DPDT | | HSH | HSJ | HMH | | — | HMJ | | HSK | HMK | | | | |
| Tall | | SPDT | 2 | HSR | HSS | HMR | — | | HMS | HST | HMT | | | |
| | | | | HSM | HSN | HMM | — | | HMN | HSP | HMP | | | |
| | | DPDT | HSX | HSY | HMX | — | HMY | | HSZ | HMZ | | | | |
| Series HS w/ Terminal Block | Tall | SPDT | 1 | HS2 | HS3 | HM2 | H7A | HM3 | HS4 | HM4 | | | | |
| | | DPDT | HS6 | HS7 | HM6 | H7C | HM7 | HS8 | HM8 | | | | | |

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|----------------------------------|-------------|-------------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series 8 | Short | SPDT | 1 | Red | 8AR | 8KR | 8AP | 82P | 8KP | — | 8KT | |
| | | | | Yellow | 8AY | 8KY | 8AQ | 82Q | 8KQ | — | 8KS | |
| | | | Tall | 1 | Red | 8AD | 8KD | 8AA | 82A | 8KA | 8KV | 8KJ |
| | | | | | Yellow | 8AM | 8KM | 8AB | 82B | 8KB | 8KW | 8KK |
| | | | | 2 | Red | 8BD | 8LD | 8BA | 84A | 8LA | 8LV | 8LJ |
| | | | | | Yellow | 8BM | 8LM | 8BB | 84B | 8LB | 8LW | 8LK |
| | 3 | Red | 8CD | 8MD | 8CA | 86A | 8MA | 8MV | 8ML | | | |
| | | Yellow | 8CM | 8MM | 8CB | 86B | 8MB | 8MW | 8MK | | | |
| | Grp IV SPDT | 1 | Red | 8HD | 8SD | 8FA | 83A | 8SA | 8SV | 8SJ | | |
| | | | Yellow | 8HM | 8SM | 8FB | 83B | 8SB | 8SW | 8SK | | |
| | | Short | DPDT | 1 | Red | 8DR | 8NR | 8DP | 88P | 8NP | — | 8NT |
| | | | | | Yellow | 8DY | 8NY | 8DQ | 88Q | 8NQ | — | 8NS |
| | Tall | 1 | Red | 8DD | 8ND | 8DA | 88A | 8NA | 8NV | 8NJ | | |
| | | | Yellow | 8DM | 8NM | 8DB | 88B | 8NB | 8NW | 8NK | | |
| | | | 2 | Red | 8ED | 8OD | 8EA | 81A | 8OA | 8OV | 8OJ | |
| | | | | Yellow | 8EM | 8OM | 8EB | 81B | 8OB | 8OW | 8OK | |
| | | Grp IV DPDT | 1 | Red | 8JD | 8TD | 8GA | 87A | 8TA | 8TV | 8TJ | |
| | | | | Yellow | 8JM | 8TM | 8GB | 87B | 8TB | 8TW | 8TK | |
| Series 8 w/ 10' Wire Leads | Short | SPDT | 1 | Red | 8A1 | 8K1 | — | — | 8KG | — | — | |
| | | | | Yellow | 8A2 | 8K2 | — | — | 8KH | — | — | |
| | | | Tall | 1 | Red | 8A3 | 8K3 | — | — | 8KL | — | — |
| | | | | | Yellow | 8A4 | 8K4 | — | — | 8KN | — | — |
| | 2 | Red | 8B3 | 8L3 | — | — | 8LL | — | — | | | |
| | | Yellow | 8B4 | 8L4 | — | — | 8LN | — | — | | | |
| | 3 | Red | 8C3 | 8M3 | — | — | 8MJ | — | — | | | |
| | | Yellow | 8C4 | 8M4 | — | — | 8MN | — | — | | | |

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|-------------------------------------|-------------------------------------|----------------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|--|
| Series 8 w/ 10' Wire Leads | Series 8 w/ 10' Wire Leads | Grp IV SPDT | 1 | Red | 8H3 | 8S3 | — | — | 8SL | — | — | | | |
| | | | | Yellow | 8H4 | 8S4 | — | — | 8SN | — | — | | | |
| | | Short | DPDT | 1 | Red | 8D1 | 8N1 | — | — | 8NG | — | — | | |
| | | | | | Yellow | 8D2 | 8N2 | — | — | 8NH | — | — | | |
| | | Tall | | 2 | Red | 8D3 | 8N3 | — | — | 8NL | — | — | | |
| | | | | | Yellow | 8D4 | 8N4 | — | — | 8NN | — | — | | |
| | Grp IV DPDT | 1 | Red | 8E3 | 8O3 | — | — | 8OL | — | — | | | | |
| | | | Yellow | 8E4 | 8O4 | — | — | 8ON | — | — | | | | |
| | Series 9 | Short | SPDT | 1 | Red | 9AR | 9KR | 9AP | 92P | 9KP | — | 9KT | | |
| | | | | | Yellow | 9AY | 9KY | 9AQ | 92Q | 9KQ | — | 9KS | | |
| | | | | Tall | 2 | Red | 9AD | 9KD | 9AA | 92A | 9KA | 9KV | 9KJ | |
| | | | | | | Yellow | 9AM | 9KM | 9AB | 92B | 9KB | 9KW | 9KK | |
| Grp IV SPDT | | | | 1 | Red | 9BD | 9LD | 9BA | 94A | 9LA | 9LV | 9LJ | | |
| | | | | | Yellow | 9BM | 9LM | 9BB | 94B | 9LB | 9LW | 9LK | | |
| Short | | | DPDT | 1 | Red | 9CD | 9MD | 9CA | 96A | 9MA | 9MV | 9ML | | |
| | | | | | Yellow | 9CM | 9MM | 9CB | 96B | 9MB | 9MW | 9MK | | |
| Tall | | | | 2 | Red | 9HD | 9SD | 9FA | 93A | 9SA | 9SV | 9SJ | | |
| | | | | | Yellow | 9HM | 9SM | 9FB | 93B | 9SB | 9SW | 9SK | | |
| Short | | | DPDT | 1 | Red | 9DR | 9NR | 9DP | 98P | 9NP | — | 9NT | | |
| | | | | | Yellow | 9DY | 9NY | 9DQ | 98Q | 9NQ | — | 9NS | | |
| Tall | | 2 | | Red | 9DD | 9ND | 9DA | 98A | 9NA | 9NV | 9NJ | | | |
| | | | | Yellow | 9DM | 9NM | 9DB | 98B | 9NB | 9NW | 9NK | | | |
| Short | | DPDT | 1 | Red | 9ED | 9OD | 9EA | 91A | 9OA | 9OV | 9OJ | | | |
| | | | | Yellow | 9EM | 9OM | 9EB | 91B | 9OB | 9OW | 9OK | | | |

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T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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|-------------------------------|-------------|-------------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|
| Series 9 | Series 9 | Grp IV DPDT | 1 | Red | 9JD | 9TD | 9GA | 97A | 9TA | 9TV | 9TJ |
| | | | | Yellow | 9JM | 9TM | 9GB | 97B | 9TB | 9TW | 9TK |
| Series 9 w/ 10' Wire Leads | Short | SPDT | 1 | Red | 9A1 | 9K1 | — | — | 9KG | — | — |
| | | | | Yellow | 9A2 | 9K2 | — | — | 9KH | — | — |
| | Tall | | 2 | Red | 9A3 | 9K3 | — | — | 9KL | — | — |
| | | | | Yellow | 9A4 | 9K4 | — | — | 9KN | — | — |
| | 2 | | Red | 9B3 | 9L3 | — | — | 9LL | — | — | |
| | | | Yellow | 9B4 | 9L4 | — | — | 9LN | — | — | |
| | 3 | Red | 9C3 | 9M3 | — | — | 9ML | — | — | | |
| | | Yellow | 9C4 | 9M4 | — | — | 9MN | — | — | | |
| | Grp IV SPDT | 1 | Red | 9H3 | 9S3 | — | — | 9SL | — | — | |
| | | | Yellow | 9H4 | 9S4 | — | — | 9SN | — | — | |
| | Short | DPDT | 1 | Red | 9D1 | 9N1 | — | — | 9NG | — | — |
| | | | | Yellow | 9D2 | 9N2 | — | — | 9NH | — | — |
| | Tall | | 2 | Red | 9D3 | 9N3 | — | — | 9NL | — | — |
| | | | | Yellow | 9D4 | 9N4 | — | — | 9NN | — | — |
| | Grp IV DPDT | 1 | Red | 9J3 | 9T3 | — | — | 9TL | — | — | |
| | | | Yellow | 9J4 | 9T4 | — | — | 9TN | — | — | |
| Series R | Short | SPDT | 1 | Yellow | R1Y | RKY | R1Q | R2Q | RKQ | — | RKS |
| | | | | Yellow | R1M | RKM | R1B | R2B | RKB | RKW | RKK |
| | Tall | 2 | Yellow | R3M | RLM | R3B | R4B | RLB | RLW | RLK | |
| | | | Grp IV SPDT | 1 | Yellow | R5M | RWM | R5B | R6B | RYB | RWW |
| | Short | DPDT | 1 | Yellow | RDY | RNY | RDQ | R8Q | RNQ | — | RNS |

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|-------------------------------|-------|-------------|---|--------|-----|-----|-----|-----|-----|-----|-----|
| Series R | Tall | DPDT | 1 | Yellow | RDM | RNM | RDB | RGB | RNB | RNW | RNK |
| | | | 2 | Yellow | REM | ROM | REB | RHB | ROB | ROW | ROK |
| | | Grp IV DPDT | 1 | Yellow | RJM | RSM | RFB | RJB | RSB | RSW | RSK |
| Series R w/ 10' Wire Leads | Short | SPDT | 1 | Yellow | RI2 | RK2 | — | RKH | — | — | — |
| | | | 2 | Yellow | RI4 | RK4 | — | RKN | — | — | — |
| | Tall | SPDT | 1 | Yellow | R34 | RL4 | — | RLN | — | — | — |
| | | | 2 | Yellow | R54 | RW4 | — | RYN | — | — | — |
| | Short | DPDT | 1 | Yellow | RD2 | RN2 | — | RNH | — | — | — |
| | | | | Yellow | RD4 | RN4 | — | RNN | — | — | — |
| | Tall | DPDT | 2 | Yellow | RE4 | RO4 | — | RON | — | — | — |
| Yellow | | | | RJ4 | RS4 | — | RSN | — | — | — | |
| | | Grp IV DPDT | 1 | Yellow | RJ4 | RS4 | — | RSN | — | — | — |

Liquid Level Limit Switches. abc-defg-hij

Equipment Ratings:

Enclosures (3 types):

- 1) Material: carbon steel cover with aluminum base, x-tall – Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection Type 4X;
- 2) Material: cast aluminum, cover with base, x-tall – Explosionproof for Class I, Division 1, Groups B, C and D T6...T1; Dust-Ignitionproof for Class II, III, Division 1, Groups E, F and G, T6...T1; hazardous (classified) locations. Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection Type 4X, IP66; Single Seal.
- 3) Material: cast iron, cover with base, x-tall - Explosionproof for Class I, Division 1, Groups B, C and D T6...T1; Dust-Ignitionproof for Class II, III, Division 1, Groups E, F and G, T6...T1; hazardous (classified) locations. Ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ with ingress protection IP66; Single Seal.

| | | |
|-------------------------------|---------------------------------|---|
| Single Seal; MWP rated up to: | Minimum (E-Tube) Wall Thickness | Max Pressure Rating for 316 SST Version |
| | 0.0259 in | 1300 psi |
| | 0.0595 in | 2710 psi |
| | 0,087 in | 5000 psi |

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Markings:

Enclosures (3 types):

- 1) Material: carbon steel cover with aluminum base, x-tall - Type 4X;
- 2) Material: cast aluminum, cover with base, x-tall - Class I, Division 1, Groups B, C and D T6...T1; Class II, III, Division 1, Groups E, F and G T6...T1 -40°C ≤ Ta ≤ +70°C; Type 4X, IP66; Single Seal.
- 3) Material: cast iron, cover with base, x-tall - Class I, Division 1, Groups B, C and D T6...T1, Class II, III, Division 1, Groups E, F and G T6...T1 -40°C ≤ Ta ≤ +70°C; IP66; Single Seal.

Description of Equipment:

| | |
|------|---|
| abc | Model Numbers: A10, A15, A40, A75, B3F, B10, B15, B24, B25, B34, B35, B40, B41, B43, B60, B72, B73, B74, B75, C10, C15, C24, C25, C29, C34, C35, C60, C74, C75, D30, D75, E75, F10, F50, F75, G3F, G33, G35, G75, H13, H15, H31, H32, H51, H52, H75, J30, J31, J33, J75, K3F, K35, K75, L30, L35, L75, M75, N15, N32, N52, N75, O30, 075, P75, S75, T20, T21, T52, T57, T62, T63, T64, T67, T68, V35, V75, W25, W29, W60, Z35, Z75 and Z3F. |
| defg | Process Connection Configuration (outside of Approval): Any 4-digit alphanumeric character. |
| hij | Switch and Enclosure: 3-digit variables located in the tables below |

Note: The Switch Code Table below represents variables hij in the model code.

| Switch Type | Housing Height & Options | Switch Contact | Set Pt. | Magnet Dot Color | Type 4X Cast /Alum 3/4" NPT | CI 1, Div. 1, Group C & D Cast Iron | Type 4X Cast /Alum 1" NPT | CI 1, Div. 1, Group C & D Cast Alum M20 x 1.5 | CI 1, Div. 1, Group C & D Cast Alum 1" NPT | CI 1, Div. 1, Group B, C & D Cast Iron | CI 1, Div. 1, Group B, C & D Cast Alum 1" NPT | |
|-------------|--------------------------|----------------|---------|------------------|-----------------------------|-------------------------------------|---------------------------|---|--|--|---|-----|
| Series B | Short | SPDT | 1 | Yellow | BAY | BKY | BAQ | B2Q | BKQ | — | BKS | |
| | | | | Red | BAR | BKR | BAP | B2P | BKP | — | BKT | |
| | | | | Tall | Yellow | BAM | BKM | BAB | B2B | BKB | BKW | BKK |
| | | | | | Red | BAD | BKD | BAA | B2A | BKA | BKV | BKJ |
| | | | | | Yellow | BBM | BLM | BBB | B4B | BLB | BLW | BLK |
| | | | | | Red | BBD | BLD | BBA | B4A | BLA | BLV | BLJ |
| | Short | DPDT | 1 | Yellow | BDY | BNY | BDQ | B8Q | BNQ | — | BNS | |
| | | | | Yellow | BCM | BMM | BCB | B6B | BMB | BMW | BMK | |
| | | | | Red | BCD | BMD | BCA | B6A | BMA | BMV | BMJ | |
| | | | | Yellow | BAM | BKM | BAB | B2B | BKB | BKW | BKK | |
| | | | | Red | BAD | BKD | BAA | B2A | BKA | BKV | BKJ | |
| | | | | Red | BBM | BLM | BBB | B4B | BLB | BLW | BLK | |

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|----------|-------|------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series B | Short | DPDT | 1 | Red | BDR | BNR | BDP | B8P | BNP | — | BNT | | |
| | | | | Yellow | BDM | BNM | BDB | B8B | BNB | BNW | BNK | | |
| | | | | Red | BDD | BND | BDA | B8A | BNA | BNV | BNJ | | |
| | Tall | | 2 | Yellow | BEM | BOM | BEB | B1B | BOB | BOW | BOK | | |
| | | | | Red | BED | BOD | BEA | B1A | BOA | BOV | BOJ | | |
| | | | | Yellow | BEM | BOM | BEB | B1B | BOB | BOW | BOK | | |
| Series C | Short | SPDT | 1 | Yellow | CAY | CKY | CAQ | C2Q | CKQ | — | CKS | | |
| | | | | Red | CAR | CKR | CAP | C2P | CKP | — | CKT | | |
| | | | | Yellow | CAM | CKM | CAB | C2B | CKB | CKW | CKK | | |
| | | | Tall | 2 | Red | CAD | CKD | CAA | C2A | CKA | CKV | CKJ | |
| | | | | | Yellow | CBM | CLM | CBB | C4B | CLB | CLW | CLK | |
| | | | | | Red | CBD | CLD | CBA | C4A | CLA | CLV | CLJ | |
| | Short | | DPDT | 3 | Yellow | CCM | CMM | CCB | C6B | CMB | CMW | CMK | |
| | | | | | Red | CCD | CMD | CCA | C6A | CMA | CMV | CMJ | |
| | | | | | Yellow | CDY | CNY | CDQ | C8Q | CNQ | — | CNS | |
| | | | | Tall | 1 | Red | CDR | CNR | CDP | C8P | CNP | — | CNT |
| | | | | | | Yellow | CDM | CNM | CDB | C8B | CNB | CNW | CNK |
| | | | | | | Red | CDD | CND | CDA | C8A | CNA | CNV | CNJ |
| | Short | SPDT | 2 | Yellow | CEM | COM | CEB | C1B | COB | COW | COK | | |
| | | | | Red | CED | COD | CEA | C1A | COA | COV | COJ | | |
| | | | | Yellow | DAY | DKY | DAQ | D2Q | DKQ | — | DKS | | |
| | | | Tall | 2 | Yellow | DAM | DKM | DAB | D2B | DKB | DKW | DKK | |
| | | | | | Yellow | DBM | DLM | DBB | D4B | DLB | DLW | DLK | |
| | | | | | Yellow | DCM | DMM | DCB | D6B | DMB | DMW | DMK | |
| Short | DPDT | 1 | Yellow | DDY | DNY | DDQ | D8Q | DNQ | — | DNS | | | |
| | | | Yellow | DDM | DNM | DDB | D8B | DNB | DNW | DNK | | | |
| | | | Yellow | DEM | DOM | DEB | D1B | DOB | DOW | DOK | | | |
| | | Tall | 2 | Yellow | DEM | DOM | DEB | D1B | DOB | DOW | DOK | | |
| | | | | Yellow | DDY | DNY | DDQ | D8Q | DNQ | — | DNS | | |
| | | | | Yellow | DDM | DNM | DDB | D8B | DNB | DNW | DNK | | |

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|----------------------------------|----------|------|------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series F | Short | SPDT | 1 | Yellow | FAY | FKY | FAQ | F2Q | FKQ | — | FKS | |
| | | | | Red | FAR | FKR | FAP | F2P | FKP | — | FKT | |
| | | | Tall | 1 | Yellow | FAM | FKM | FAB | FCB | FKB | FKW | FKK |
| | | | | | Red | FAD | FKD | FAA | FCA | FKA | FKV | FKJ |
| | Tall | DPDT | 1 | Yellow | FDM | FNM | FDB | FGB | FNB | FNW | FNK | |
| | | | | Red | FDD | FND | FDA | FGA | FNA | FNV | FNJ | |
| | | | 2 | Yellow | FBM | FLM | FBB | FFB | FLB | FLW | FLK | |
| | | | | Red | FBD | FLD | FBA | FFA | FLA | FLV | FLJ | |
| | | | 2 | Yellow | FEM | FOM | FEB | FHB | FOB | FOW | FOK | |
| | | | | Red | FED | FOD | FEA | FHA | FOA | FOV | FOJ | |
| Series F w/ 10' Wire Leads | Short | SPDT | 1 | Yellow | FA2 | FK2 | — | — | FKH | — | — | |
| | | | | Red | FA1 | FK1 | — | — | FKG | — | — | |
| | | | Tall | 1 | Yellow | FA4 | FK4 | — | — | FKN | — | — |
| | | | | | Red | FA3 | FK3 | — | — | FKL | — | — |
| | Tall | DPDT | 1 | Yellow | FD2 | FN2 | — | — | FNH | — | — | |
| | | | | Red | FD1 | FN1 | — | — | FNG | — | — | |
| | | | 2 | 1 | Yellow | FD4 | FN4 | — | — | FNN | — | — |
| | | | | | Red | FD3 | FN3 | — | — | FNL | — | — |
| | | | 2 | 2 | Yellow | FE4 | FO4 | — | — | FON | — | — |
| | | | | | Red | FE3 | FO3 | — | — | FOL | — | — |
| | Series G | Tall | SPDT | 1 | Yellow | GAM | GKM | — | — | — | GKW | — |
| | | | | | Red | GAD | GKD | — | — | — | GKV | — |

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|----------------------|--------|-------------|--------|--------|--------|-----|-----|-----|-----|-----|-----|---|
| Series G | Tall | DPDT | 1 | Yellow | GDM | GNM | — | — | — | GNW | — | |
| | | | | Red | GDD | GND | — | — | — | GNV | — | |
| Series H | Tall | SPDT | 1 | Yellow | HAM | HKM | — | — | — | HKW | — | |
| | | | | Red | HAD | HKD | — | — | — | HKV | — | |
| | | DPDT | Yellow | HDM | HNM | — | — | — | HNW | — | | |
| | | | Red | HDD | HND | — | — | — | HNV | — | | |
| Series I | Tall | SPDT | 1 | Yellow | IAM | IKM | — | — | — | IKW | — | |
| | | | | Red | IAD | IKD | — | — | — | IKV | — | |
| | | DPDT | Yellow | IDM | INM | — | — | — | INW | — | | |
| | | | Red | IDD | IND | — | — | — | INV | — | | |
| Series C for C10/C15 | X-Tall | SPDT | 3 | Yellow | OCM | OMM | OCB | — | OMB | OMI | OMN | |
| | | DPDT | | OEM | OKM | OEB | — | OKB | OKI | OKN | | |
| Series B for C10/C15 | X-Tall | SPDT | 3 | Yellow | QCM | QMM | QCB | — | QMB | QMI | QMN | |
| | | DPDT | | QEM | QKM | QEB | — | QKB | QKI | QKN | | |
| Series C | Tall | Grp IV SPDT | 1 | Yellow | SAM | SKM | SAB | S2B | SKB | SKW | SKK | |
| | | Grp IV DPDT | | | SDM | SNM | SDB | S8B | SNB | SNW | SNK | |
| Series D | | Grp IV SPDT | | | SBM | SLM | SBB | S2R | SLB | SLW | SLK | |
| | | Grp IV DPDT | | | SEM | SOM | SEB | S8R | SOB | SOW | SOK | |
| Series U | Short | SPDT | 1 | Yellow | UAY | UKY | UAQ | U2Q | UKQ | — | — | |
| | | | | Red | UAR | UKR | UAP | U2P | UKP | — | — | |
| | | | | Tall | Yellow | UAM | UKM | UAB | U2B | UKB | UKW | — |
| | | | | | Red | UAD | UKD | UAA | U2A | UKA | — | — |
| | Tall | SPDT | 2 | Yellow | UBM | ULM | UBB | U4B | ULB | ULW | — | |
| | | | | Red | UBD | ULD | UBA | U4A | ULA | — | — | |
| | | | 3 | Yellow | UCM | UMM | UCB | U6B | UMB | UMW | — | |
| | | | | | | | | | | | | |

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|----------|----------|-------|------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series U | Series U | SPDT | 3 | SPDT | Red | UCD | UMD | UCA | U6A | UMA | — | | |
| | | Short | DPDT | 1 | Yellow | UDY | UNY | UDQ | U8Q | UNQ | — | — | |
| | | | | | Red | UDR | UNR | UDP | U8P | UNP | — | — | |
| | | Tall | | | Yellow | UDM | UNM | UDB | U8B | UNB | UNW | — | |
| | | | | | Red | UDD | UND | UDA | U8A | UNA | — | — | |
| | | | | | 2 | Yellow | UEM | UOM | UEB | U1B | UOB | UOW | — |
| | | Red | UED | UOD | | UEA | U1A | UOA | — | — | | | |
| Series W | Short | SPDT | 1 | Yellow | WAY | WKY | WAQ | W2Q | WKQ | — | WKS | | |
| | | | | Red | WAR | WKR | WAP | W2P | WKP | — | WKT | | |
| | | | | Tall | Yellow | WAM | WKM | WAB | W2B | WKB | WKW | WKK | |
| | | | | | Red | WAD | WKD | WAA | W2A | WKA | — | — | |
| | | | | 2 | Yellow | WBM | WLM | WBB | W4B | WLB | WLW | WLK | |
| | | | | | Red | WBD | WLD | WBA | W4A | WLA | — | — | |
| | | | | | 3 | Yellow | WCM | WMM | WCB | W6B | WMB | WMW | WMK |
| | Red | WCD | WMD | WCA | | W6A | WMA | — | — | | | | |
| | Short | DPDT | 1 | Yellow | WDY | WNY | WDQ | W8Q | WNQ | — | WNS | | |
| | | | | Tall | Yellow | WDM | WNM | WDB | W8B | WNB | WNW | WNK | |
| | Series X | Short | SPDT | 1 | Yellow | XAY | XKY | XAQ | X2Q | XKQ | — | XKS | |
| | | | | | Red | XAR | XKR | XAP | X2P | XKP | — | XKT | |
| | | | | | Tall | Yellow | XAM | XKM | XAB | X2B | XKB | XKW | XKK |
| | | | | | | Red | XAD | XKD | XAA | X2A | XKA | — | — |
| 2 | | | | | Yellow | XBM | XLM | XBB | X4B | XLB | XLW | XLK | |
| | | | | | Red | XBD | XLD | XBA | X4A | XLA | — | — | |
| 3 | | | | | Yellow | XCM | XMM | XCB | X6B | XMB | XMW | XMK | |
| | Red | XCD | XMD | XCA | X6A | XMA | — | — | | | | | |

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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|-----------------------------------|--------|----------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| Series X | Short | DPDT | 1 | Yellow | XDY | XNY | XDQ | X8Q | XNQ | — | XNS | |
| | Tall | | | | XDM | XNM | XDB | X8B | XNB | XNW | XNK | |
| | | | 2 | | XEM | XOM | XEB | X1B | XOB | XOW | XOK | |
| Series HS w/ Wire Leads | Short | SPDT | 1 | Yellow | HSB | HSC | HMB | — | HMC | — | HEK | |
| | | DPDT | | | HSE | HSF | HME | — | HMF | — | HET | |
| | Tall | SPDT | | | HSH | HSJ | HMH | — | HMJ | HSK | HMK | |
| | | DPDT | | | HSR | HSS | HMR | — | HMS | HST | HMT | |
| | | | SPDT | 2 | | HSM | HSN | HMM | — | HMN | HSP | HMP |
| | | | DPDT | | | HSX | HSY | HMX | — | HMY | HSZ | HMZ |
| Series HS w/ Terminal Block | Tall | SPDT | 1 | | HS2 | HS3 | HM2 | H7A | HM3 | HS4 | HM4 | |
| | | DPDT | | | HS6 | HS7 | HM6 | H7C | HM7 | HS8 | HM8 | |
| Series 8 | Short | SPDT | 1 | Red | 8AR | 8KR | 8AP | 82P | 8KP | — | 8KT | |
| | | | | Yellow | 8AY | 8KY | 8AQ | 82Q | 8KQ | — | 8KS | |
| | Tall | | Red | 8AD | 8KD | 8AA | 82A | 8KA | 8KV | 8KJ | | |
| | | | Yellow | 8AM | 8KM | 8AB | 82B | 8KB | 8KW | 8KK | | |
| | 2 | | Red | 8BD | 8LD | 8BA | 84A | 8LA | 8LV | 8LJ | | |
| | | | Yellow | 8BM | 8LM | 8BB | 84B | 8LB | 8LW | 8LK | | |
| | 3 | Red | 8CD | 8MD | 8CA | 86A | 8MA | 8MV | 8ML | | | |
| | | Yellow | 8CM | 8MM | 8CB | 86B | 8MB | 8MW | 8MK | | | |
| | | Grp IV SPDT | 1 | Red | 8HD | 8SD | 8FA | 83A | 8SA | 8SV | 8SJ | |
| | Yellow | | | 8HM | 8SM | 8FB | 83B | 8SB | 8SW | 8SK | | |
| | Short | DPDT | 1 | Red | 8DR | 8NR | 8DP | 88P | 8NP | — | 8NT | |
| | | | | Yellow | 8DY | 8NY | 8DQ | 88Q | 8NQ | — | 8NS | |
| | Tall | | | Red | 8DD | 8ND | 8DA | 88A | 8NA | 8NV | 8NJ | |
| | | | | Yellow | 8DM | 8NM | 8DB | 88B | 8NB | 8NW | 8NK | |
| | | 2 | Red | 8ED | 8OD | 8EA | 81A | 8OA | 8OV | 8OJ | | |

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T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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|-------------------------------|----------|-------------|-------------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|---|
| Series 8 | Series 8 | 2 | DPDT | Yellow | 8EM | 8OM | 8EB | 81B | 8OB | 8OW | 8OK | | | |
| | | Grp IV DPDT | 1 | Red | 8JD | 8TD | 8GA | 87A | 8TA | 8TV | 8TJ | | | |
| | | | | Yellow | 8JM | 8TM | 8GB | 87B | 8TB | 8TW | 8TK | | | |
| Series 8 w/ 10' Wire Leads | Short | SPDT | 1 | Red | 8A1 | 8K1 | — | — | 8KG | — | — | | | |
| | | | | Yellow | 8A2 | 8K2 | — | — | 8KH | — | — | | | |
| | | | | Red | 8A3 | 8K3 | — | — | 8KL | — | — | | | |
| | | | | Yellow | 8A4 | 8K4 | — | — | 8KN | — | — | | | |
| | Tall | | 2 | Red | 8B3 | 8L3 | — | — | 8LL | — | — | | | |
| | | | | Yellow | 8B4 | 8L4 | — | — | 8LN | — | — | | | |
| | | | | Red | 8C3 | 8M3 | — | — | 8MJ | — | — | | | |
| | | | | Yellow | 8C4 | 8M4 | — | — | 8MN | — | — | | | |
| | Tall | 3 | Grp IV SPDT | 1 | Red | 8H3 | 8S3 | — | — | 8SL | — | — | | |
| | | | | | Yellow | 8H4 | 8S4 | — | — | 8SN | — | — | | |
| | | | | | Red | 8D1 | 8N1 | — | — | 8NG | — | — | | |
| | | | | | Yellow | 8D2 | 8N2 | — | — | 8NH | — | — | | |
| | | Short | | 2 | DPDT | 1 | Red | 8D3 | 8N3 | — | — | 8NL | — | — |
| | | | | | | | Yellow | 8D4 | 8N4 | — | — | 8NN | — | — |
| | | | | | | | Red | 8E3 | 8O3 | — | — | 8OL | — | — |
| | | | | | | | Yellow | 8E4 | 8O4 | — | — | 8ON | — | — |
| | Tall | Grp IV DPDT | 1 | Red | 8J3 | 8T3 | — | — | 8TL | — | — | | | |
| | | | | Yellow | 8J4 | 8T4 | — | — | 8TN | — | — | | | |
| Short | | | | 2 | 1 | Red | 9AR | 9KR | 9AP | 92P | 9KP | — | 9KT | |
| | | | | | | Yellow | 9AY | 9KY | 9AQ | 92Q | 9KQ | — | 9KS | |
| Tall | | | | | Red | 9AD | 9KD | 9AA | 92A | 9KA | 9KV | 9KJ | | |
| | | | | | | Yellow | 9AM | 9KM | 9AB | 92B | 9KB | 9KW | 9KK | |
| Short | 2 | Red | 9BD | | 9LD | 9BA | 94A | 9LA | 9LV | 9LJ | | | | |
| | | | Yellow | | 9BD | 9LD | 9BA | 94A | 9LA | 9LV | 9LJ | | | |

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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|-------------|----------------------------|--------|--------|-------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| Series 9 | Series 9 | SPDT | 2 | SPDT | Yellow | 9BM | 9LM | 9BB | 94B | 9LB | 9LW | | |
| | | | 3 | | Red | 9CD | 9MD | 9CA | 96A | 9MA | 9MV | 9ML | |
| | | | | | Yellow | 9CM | 9MM | 9CB | 96B | 9MB | 9MW | 9MK | |
| | Grp IV SPDT | 1 | Red | 9HD | 9SD | 9FA | 93A | 9SA | 9SV | 9SJ | | | |
| | | | Yellow | 9HM | 9SM | 9FB | 93B | 9SB | 9SW | 9SK | | | |
| | Short | DPDT | 1 | Red | 9DR | 9NR | 9DP | 98P | 9NP | — | 9NT | | |
| | | | | Yellow | 9DY | 9NY | 9DQ | 98Q | 9NQ | — | 9NS | | |
| | Tall | | | 1 | Red | 9DD | 9ND | 9DA | 98A | 9NA | 9NV | 9NJ | |
| | | | | | Yellow | 9DM | 9NM | 9DB | 98B | 9NB | 9NW | 9NK | |
| | | | | 2 | Red | 9ED | 9OD | 9EA | 91A | 9OA | 9OV | 9OJ | |
| | | | | | Yellow | 9EM | 9OM | 9EB | 91B | 9OB | 9OW | 9OK | |
| | | | | Grp IV DPDT | 1 | Red | 9JD | 9TD | 9GA | 97A | 9TA | 9TV | 9TJ |
| | | | | | | Yellow | 9JM | 9TM | 9GB | 97B | 9TB | 9TW | 9TK |
| | Series 9 w/ 10' Wire Leads | Short | SPDT | 1 | Red | 9A1 | 9K1 | — | — | 9KG | — | — | |
| | | | | | Yellow | 9A2 | 9K2 | — | — | 9KH | — | — | |
| Tall | | 1 | | Red | 9A3 | 9K3 | — | — | 9KL | — | — | | |
| | | | | Yellow | 9A4 | 9K4 | — | — | 9KN | — | — | | |
| 2 | | Red | | 9B3 | 9L3 | — | — | 9LL | — | — | | | |
| | | Yellow | | 9B4 | 9L4 | — | — | 9LN | — | — | | | |
| 3 | | Red | 9C3 | 9M3 | — | — | 9ML | — | — | | | | |
| | | Yellow | 9C4 | 9M4 | — | — | 9MN | — | — | | | | |
| Grp IV SPDT | | 1 | Red | 9H3 | 9S3 | — | — | 9SL | — | — | | | |
| | | | Yellow | 9H4 | 9S4 | — | — | 9SN | — | — | | | |
| Short | | DPDT | 1 | Red | 9D1 | 9N1 | — | — | 9NG | — | — | | |
| | | | | Yellow | 9D2 | 9N2 | — | — | 9NH | — | — | | |
| Tall | | | | Red | 9D3 | 9N3 | — | — | 9NL | — | — | | |

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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|----------------------------------|----------------|----------------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| Series 9 w/ 10' Wire Leads | Tall | DPDT | 1 | Yellow | 9D4 | 9N4 | — | — | 9NN | — | — | | | |
| | | | 2 | Red | 9E3 | 9O3 | — | — | 9OL | — | — | | | |
| | | | | Yellow | 9E4 | 9O4 | — | — | 9ON | — | — | | | |
| | Grp IV DPDT | 1 | Red | 9J3 | 9T3 | — | — | 9TL | — | — | | | | |
| | | | Yellow | 9J4 | 9T4 | — | — | 9TN | — | — | | | | |
| | Series R | Short | SPDT | 1 | Yellow | R1Y | RKY | R1Q | R2Q | RKQ | — | RKS | | |
| Yellow | | | | | R1M | RKM | R1B | R2B | RKB | RKW | RKK | | | |
| 2 | | | | Yellow | R3M | RLM | R3B | R4B | RLB | RLW | RLK | | | |
| Tall | | Grp IV SPDT | 1 | Yellow | R5M | RWM | R5B | R6B | RYB | RWW | RYK | | | |
| | | | | Short | DPDT | 1 | Yellow | RDY | RNY | RDQ | R8Q | RNQ | — | RNS |
| | | | | | | | Tall | Yellow | RDM | RNM | RDB | RGB | RNB | RNW |
| 2 | | Yellow | REM | ROM | REB | RHB | | ROB | ROW | ROK | | | | |
| | | Grp IV DPDT | 1 | Yellow | RJM | RSM | RFB | RJB | RSB | RSW | RSK | | | |
| Short | | | | SPDT | 1 | Yellow | RI2 | RK2 | — | RKH | — | — | — | |
| | | Yellow | RI4 | | | RK4 | — | RKN | — | — | — | | | |
| | | 2 | Yellow | | R34 | RL4 | — | RLN | — | — | — | | | |
| Tall | | Grp IV SPDT | 1 | Yellow | R54 | RW4 | — | RYN | — | — | — | | | |
| | Short | | | DPDT | 1 | Yellow | RD2 | RN2 | — | RNH | — | — | | |
| | | | | | | Tall | Yellow | RD4 | RN4 | — | RNN | — | — | — |
| 2 | Yellow | RE4 | RO4 | — | RON | | — | — | — | | | | | |
| | Grp IV DPDT | 1 | Yellow | RJ4 | RS4 | — | RSN | — | — | — | | | | |

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