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CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

- 2. **Certificate No:** FM21CA0066X
- 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:

PR460002 dated 4th April 2023

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

CSA C22.2 No. 0.4:2017 (R2022), CSA C22.2 No. 0.5:2016 (R2020), CSA C22.2 No. 25:2017, CSA C22.2 No. 30:2020, CSA C22.2 No. 94.2:2020, CSA C22.2 No. 60529:2016, CSA C22.2 No. 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:**

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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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 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 Canadian Certification Scheme.

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
4 April 2023	Original Issue.

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Date	Description
19 January 2024	<u>Supplement 1:</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				
			Series C	Short	SPDT	1	Yellow	CAY	CKY	CAQ	C2Q	CKQ	—	CKS
							Red	CAR	CKR	CAP	C2P	CKP	—	CKT
Tall	2	Yellow		CAM		CKM	CAB	C2B	CKB	CKW	CKK			
		Red		CAD		CKD	CAA	C2A	CKA	CKV	CKJ			
	3	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		2	Yellow	CDM	CNM	CDB	C8B	CNB	CNW	CNK		
				Red	CDD	CND	CDA	C8A	CNA	CNV	CNJ		
						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	
				Yellow	DEM	DOM	DEB	D1B	DOB	DOW	DOK		
Series F	Short	SPDT	1	Yellow	FAY	FKY	FAQ	F2Q	FKQ	—	FKS		
				Red	FAR	FKR	FAP	F2P	FKP	—	FKT		
	Tall		2	Yellow	FAM	FKM	FAB	FCB	FKB	FKW	FKK		
				Red	FAD	FKD	FAA	FCA	FKA	FKV	FKJ		
						Yellow	FBM	FLM	FBB	FFB	FLB	FLW	FLK
						Red	FBD	FLD	FBA	FFA	FLA	FLV	FLJ
Series F w/	Short	DPDT	1	Yellow	FDY	FNY	FDQ	F8Q	FNQ	—	FNS		
				Red	FDR	FNR	FDP	F8P	FNP	—	FNT		
	Tall		2	Yellow	FDM	FNM	FDB	FGB	FNB	FNW	FNK		
				Red	FDD	FND	FDA	FGA	FNA	FNV	FNJ		
						Yellow	FEM	FOM	FEB	FHB	FOB	FOV	FOK
						Red	FED	FOD	FEA	FHA	FOA	FOV	FOJ

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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	DPDT		1	Yellow	FB4	FL4	—	—	FLN	—	—
					Red	FB3	FL3	—	—	FLL	—	—
	Tall		2	1	Yellow	FD2	FN2	—	—	FNH	—	—
					Red	FD1	FN1	—	—	FNG	—	—
	Short	2		2	Yellow	FD4	FN4	—	—	FNN	—	—
					Red	FD3	FN3	—	—	FNL	—	—
Tall	2		2	Yellow	FE4	FO4	—	—	FON	—	—	
				Red	FE3	FO3	—	—	FOL	—	—	
Series G		Tall	SPDT	1	Yellow	GAM	GKM	—	—	—	GKW	—
					Red	GAD	GKD	—	—	—	GKV	—
	DPDT		1	Yellow	GDM	GNM	—	—	—	GNW	—	
				Red	GDD	GND	—	—	—	GNV	—	
Series H	Tall	SPDT	1	Yellow	HAM	HKM	—	—	—	HKW	—	
				Red	HAD	HKD	—	—	—	HKV	—	
		DPDT	1	Yellow	HDM	HNM	—	—	—	HNW	—	
				Red	HDD	HND	—	—	—	HNV	—	
Series I	Tall	SPDT	1	Yellow	IAM	IKM	—	—	—	IKW	—	
				Red	IAD	IKD	—	—	—	IKV	—	
		DPDT	1	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		

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Series B for C10/C15	X-Tall	SPDT	3	Yellow	QCM	QMM	QCB	—	QMB	QMI	QMN	
		DPDT		Yellow	QEM	QKM	QEB	—	QKB	QKI	QKN	
Series C	Tall	Grp IV SPDT	1	Yellow	SAM	SKM	SAB	S2B	SKB	SKW	SKK	
		Grp IV DPDT		Yellow	SDM	SNM	SDB	S8B	SNB	SNW	SNK	
Series D		Grp IV SPDT		Yellow	SBM	SLM	SBB	S2R	SLB	SLW	SLK	
		Grp IV DPDT		Yellow	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	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

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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		
			Tall	2	Red	XAD	XKD	XAA	X2A	XKA	—	—	
					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	—	—				
	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			

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Series 8	Short	SPDT	1	Red	8AR	8KR	8AP	82P	8KP	—	8KT
				Yellow	8AY	8KY	8AQ	82Q	8KQ	—	8KS
	Tall		2	Red	8AD	8KD	8AA	82A	8KA	8KV	8KJ
				Yellow	8AM	8KM	8AB	82B	8KB	8KW	8KK
	1			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		2	Red	8DD	8ND	8DA	88A	8NA	8NV	8NJ
				Yellow	8DM	8NM	8DB	88B	8NB	8NW	8NK
	1		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		2	Red	8A3	8K3	—	—	8KL	—	—
				Yellow	8A4	8K4	—	—	8KN	—	—
	3		Red	8B3	8L3	—	—	8LL	—	—	
			Yellow	8B4	8L4	—	—	8LN	—	—	
	1	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	—	—		
					Red	8D3	8N3	—	—	8NL	—	—		
						8D4	8N4	—	—	8NN	—	—		
					2	Red	8E3	8O3	—	—	8OL	—	—	
						Yellow	8E4	8O4	—	—	8ON	—	—	
		Grp IV DPDT	1	Red	8J3	8T3	—	—	8TL	—	—			
				Yellow	8J4	8T4	—	—	8TN	—	—			
		Series 9	Short	SPDT	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		
2	Red					9BD	9LD	9BA	94A	9LA	9LV	9LJ		
	Yellow					9BM	9LM	9BB	94B	9LB	9LW	9LK		
Tall	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	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		

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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	—	—
	Tall		2	3	Red	9B3	9L3	—	—	9LL	—	—
					Yellow	9B4	9L4	—	—	9LN	—	—
			3	Red	9C3	9M3	—	—	9ML	—	—	
				Yellow	9C4	9M4	—	—	9MN	—	—	
	Short	Grp IV SPDT	1	Red	9H3	9S3	—	—	9SL	—	—	
				Yellow	9H4	9S4	—	—	9SN	—	—	
			2	1	Red	9D1	9N1	—	—	9NG	—	—
					Yellow	9D2	9N2	—	—	9NH	—	—
		Tall	2	1	Red	9D3	9N3	—	—	9NL	—	—
					Yellow	9D4	9N4	—	—	9NN	—	—
			2	1	Red	9E3	9O3	—	—	9OL	—	—
					Yellow	9E4	9O4	—	—	9ON	—	—
Short	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	
				Yellow	R5M	RWM	R5B	R6B	RYB	RWW	RYK	
	Short	Grp IV SPDT	1	Yellow	R5M	RWM	R5B	R6B	RYB	RWW	RYK	
				Short	DPDT	1	Yellow	RDY	RNY	RDQ	R8Q	RNQ

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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	—	—	—	
			Tall	1	Yellow	RI4	RK4	—	RKN	—	—	—
				2	Yellow	R34	RL4	—	RLN	—	—	—
			Grp IV SPDT	1	Yellow	R54	RW4	—	RYN	—	—	—
	Short	DPDT		1	Yellow	RD2	RN2	—	RNH	—	—	—
				Tall	1	Yellow	RD4	RN4	—	RNN	—	—
	Grp IV DPDT	2			Yellow	RE4	RO4	—	RON	—	—	—
		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	1	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	

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

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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	SPDT	2	Yellow	FBM	FLM	FBB	FFB	FLB	FLW	FLK		
				Red	FBD	FLD	FBA	FFA	FLA	FLV	FLJ		
			1	Yellow	FDY	FNY	FDQ	F8Q	FNQ	—	FNS		
				Red	FDR	FNR	FDP	F8P	FNP	—	FNT		
			2	Yellow	FDM	FNM	FDB	FGB	FNB	FNW	FNK		
				Red	FDD	FND	FDA	FGA	FNA	FNV	FNJ		
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	SPDT	2	Yellow	FB4	FL4	—	—	FLN	—	—		
				Red	FB3	FL3	—	—	FLL	—	—		
			Short	DPDT	1	Yellow	FD2	FN2	—	—	FNH	—	—
						Red	FD1	FN1	—	—	FNG	—	—
	Tall	DPDT	1	Yellow	FD4	FN4	—	—	FNN	—	—		
				Red	FD3	FN3	—	—	FNL	—	—		
			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	
				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	
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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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	1	Yellow	HSH	HSJ	HMH	—	HMJ	HSK	HMK
		DPDT			HSR	HSS	HMR	—	HMS	HST	HMT
		SPDT	2	Yellow	HSM	HSN	HMM	—	HMN	HSP	HMP
		DPDT			HSX	HSY	HMX	—	HMY	HSZ	HMZ
Series HS w/ Terminal Block	Tall	SPDT	1	Yellow	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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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	—	—				
		3	Red	8H3	8S3	—	—	8SL	—	—					
			Yellow	8H4	8S4	—	—	8SN	—	—					
			Short	DPDT	1	Red	8D1	8N1	—	—	8NG	—	—		
						Yellow	8D2	8N2	—	—	8NH	—	—		
	Red	8D3				8N3	—	—	8NL	—	—				
	Yellow	8D4				8N4	—	—	8NN	—	—				
	Tall	2	Red		8E3	8O3	—	—	8OL	—	—				
			Yellow		8E4	8O4	—	—	8ON	—	—				
			Grp IV DPDT		1	Red	8J3	8T3	—	—	8TL	—	—		
						Yellow	8J4	8T4	—	—	8TN	—	—		
		Series 9		Short		SPDT	1	Red	9AR	9KR	9AP	92P	9KP	—	9KT
								Yellow	9AY	9KY	9AQ	92Q	9KQ	—	9KS
Red			9AD					9KD	9AA	92A	9KA	9KV	9KJ		
Yellow			9AM					9KM	9AB	92B	9KB	9KW	9KK		
Tall	2	Red	9BD				9LD	9BA	94A	9LA	9LV	9LJ			

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