



# 1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: FM21ATEX0060X

4. Equipment or protective system: Liquid Level Limit Switches and Boiler Water Level Controls  
(Type Reference and Name)

5. Name of Applicant: AMETEK Magnetrol USA LLC

6. Address of Applicant 705 Enterprise St,  
Aurora, Illinois 60504, USA

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

PR460002 dated 4<sup>th</sup> April 2023

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60529:1991+A1:2000+A2:2013

10. 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.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include:



Epsilon Ex can be located in the Annex with product marking.

Certificate issued by:

Certification Manager, FM Approvals Europe Ltd.

Date 21 May 2024

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### **13. Description of Equipment or Protective System:**

The Liquid Level Switches and Boiler Water Level Controls are used in multiple variations. The enclosure materials consist of 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

### **14. 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 ATEX certification does not contain an IP rating.
4. For installation with ambient temperature of +70°C, refer to the manufacturer's instruction for guidance on proper selection of conductors.

### **15. Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

### **16. Test and Assessment Procedure and Conditions:**

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

### **17. Schedule Drawings**

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A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

### **18. Certificate History**

Details of the supplements to this certificate are described below:

<b>Date</b>	<b>Description</b>
14 April 2023	Original Issue.
21 December 2023	<u>Supplement 1:</u> Report Reference: RR238290 dated 24 <sup>th</sup> October 2023. Description of the Change(s): Minor drawing changes not affecting safety.
21 May 2024	<u>Supplement 2:</u> Report Reference: PR466267 dated 21 May 2024. Description of the Changes: Addition of -40°C low ambient temperature.

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# ANNEX

## Boiler Water Level Controls. abc-defg-hij

### Markings:



**Material: cast aluminum, base with cover:**

II 2 G Ex db IIC T6...T1 Gb -40°C ≤ Ta ≤ +70°C; IP66

**Material: cast iron:**

II 2 G Ex db IIC T6...T1 Gb -40°C ≤ Ta ≤ +70°C

### 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.

Switch Type	Housing Height & Options	Switch Contact	Set Point	Magnet Dot Color	Ex db Cast Iron 3/4" NPT	Ex db Cast Iron M20 x 1.5	Ex db Cast Alum 1" NPT	Ex db Cast Alum M20 x 1.5
Series B	Short	SPDT	1	Yellow	—	—	BA9	BH9
				Red	—	—	BAC	BHC
				Yellow	BU5	BK5	BC9	BK9
				Red	BU7	BK7	BCC	BKC
	Tall		2	Yellow	BV5	BL5	BD9	BL9
				Red	BV7	BL7	BDC	BLC
				Yellow	B75	B65	BE9	BM9
				Red	B77	B67	BEC	BMC
	Short	DPDT	1	Yellow	—	—	BB9	BJ9
				Red	—	—	BBC	BJC
				Yellow	BW5	BD5	BF9	BN9
				Tall				

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Series B	Tall	DPDT	1	Red	BW7	BD7	BFC	BNC		
			2	Yellow	BY5	BO5	BG9	BP9		
				Red	BY7	BO7	BGC	BPC		
Series C	Short	SPDT	1	Yellow	—	—	CA9	CH9		
				Red	—	—	CAC	CHC		
			Tall	2	Yellow	CU5	CK5	CC9	CK9	
					Red	CU7	CK7	CCC	CKC	
				3	Yellow	CV5	CL5	CD9	CL9	
					Red	CV7	CL7	CDC	CLC	
	Short	DPDT	1	Yellow	—	—	CB9	CJ9		
				Red	—	—	CBC	CJC		
			Tall	2	Yellow	CW5	CD5	CF9	CN9	
		Red			CW7	CD7	CFC	CNC		
		3		Yellow	CY5	CO5	CG9	CP9		
			Red	CY7	CO7	CGC	CPC			
		Series D	Short	SPDT	1	Yellow	—	—	DA9	DH9
						Yellow	DU5	DK5	DC9	DK9
					Tall	2	Yellow	DV5	DL5	DD9
Yellow	D75		D65				DE9	DM9		
Short	DPDT		1		Yellow	—	—	DB9	DJ9	
					Yellow	DW5	DD5	DF9	DN9	
			Tall	2	Yellow	DY5	DO5	DG9	DP9	
Series F	Short				SPDT	1	Yellow	—	—	FA9
			Red	—			—	FAC	FHC	
	Tall	2	Yellow	FU5		FK5	FC9	FK9		
			Red	FU7		FK7	FCC	FKC		

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Series F	Series F	SPDT	2	SPDT	Yellow	FV5	FL5	FD9	
					Red	FV7	FL7	FDC	FLC
		Short	DPDT	1	Yellow	—	—	FB9	FJ9
					Red	—	—	FBC	FJC
		Tall		1	Yellow	FW5	FD5	FF9	FN9
					Red	FW7	FD7	FFC	FNC
				2	Yellow	FY5	FO5	FG9	FP9
					Red	FY7	FO7	FGC	FPC
Series F w/ 10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—	
				Red	—	—	—	—	
			Tall	Yellow	—	—	—	—	
				Red	—	—	—	—	
	Short	DPDT	1	Yellow	—	—	—	—	
				Red	—	—	—	—	
			Tall	Yellow	—	—	—	—	
				Red	—	—	—	—	
	Short	DPDT	2	Yellow	—	—	—	—	
				Red	—	—	—	—	
			Tall	Yellow	—	—	—	—	
				Red	—	—	—	—	
Series G	Tall	SPDT	1	Yellow	—	—	—	—	
				Red	—	—	—	—	
		DPDT	Yellow	—	—	—	—		
			Red	—	—	—	—		
Series H	Tall	SPDT	1	Yellow	—	—	—	—	
				Red	—	—	—	—	
		DPDT	Yellow	—	—	—	—		
			Red	—	—	—	—		

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Series I	Tall	SPDT	1	Yellow	—	—	—	—	
				Red	—	—	—	—	
		DPDT		Yellow	—	—	—	—	
				Red	—	—	—	—	
Series C for C10/C15	X-Tall	SPDT	3	Yellow	—	—	—	—	
		DPDT		—	—	—	—		
Series B for C10/C15	X-Tall	SPDT	3	Yellow	—	—	—	—	
		DPDT		—	—	—	—		
Series C	Tall	Grp IV SPDT	1	Yellow	—	—	SA9	SH9	
		Grp IV DPDT		—	—	SB9	SJ9		
Series D		Grp IV SPDT		—	—	—	SC9	SK9	
		Grp IV DPDT		—	—	SF9	SN9		
Series U	Short	SPDT	1	Yellow	—	—	UA9	UH9	
				Red	—	—	UAC	UHC	
				Tall	Yellow	UU5	UK5	UC9	UK9
					Red	UU7	UK7	UCC	UKC
				2	Yellow	UV5	UL5	UD9	UL9
					Red	UV7	UL7	UDC	ULC
	3	Yellow	U75	U65	UE9	UM9			
		Red	U77	U67	UEC	UMC			
	Short	DPDT	1	Yellow	—	—	UB9	UJ9	
				Red	—	—	UBC	UJC	
				Tall	Yellow	UW5	UD5	UF9	UN9
					Red	UW7	UD7	UFC	UNC
2				Yellow	UY5	UO5	UG9	UP9	
				Red	UY7	UO7	UGC	UPC	

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Series W	Short	SPDT	1	Yellow	—	—	WA9	WH9		
				Red	—	—	WAC	WHC		
	Tall		DPDT	2	Yellow	WU5	WK5	WC9	WK9	
					Red	WU7	WK7	WCC	WKC	
	Short			DPDT	3	Yellow	WV5	WL5	WD9	WL9
						Red	WV7	WL7	WDC	WLC
	Tall	DPDT			1	Yellow	W75	W65	WE9	WM9
						Red	W77	W67	WEC	WMC
	Short		DPDT		2	Yellow	—	—	WB9	WJ9
						Yellow	WW5	WD5	WF9	WN9
	Tall			DPDT	3	Yellow	WY5	WO5	WG9	WP9
						Yellow	—	—	XB9	XJ9
Series X	Short	SPDT			1	Yellow	—	—	XA9	XH9
						Red	—	—	XAC	XHC
	Tall		DPDT		2	Yellow	XU5	XK5	XC9	XK9
						Red	XU7	XK7	XCC	XKC
	Short			DPDT	3	Yellow	XV5	XL5	XD9	XL9
						Red	XV7	XL7	XDC	XLC
	Tall	DPDT			1	Yellow	X75	X65	XE9	XM9
						Red	X77	X67	XEC	XMC
	Short		DPDT		2	Yellow	—	—	XB9	XJ9
						Yellow	XW5	XD5	XF9	XN9
	Tall			DPDT	3	Yellow	XY5	XO5	XG9	XP9
						Yellow	—	—	—	—
Series HS w/ Wire Leads	Short	SPDT			1	Yellow	—	—	—	—
		DPDT					—	—	—	—
	Tall	SPDT	2		—		—	—	—	
		DPDT			—		—	—	—	
	Short	SPDT	1	—	—		—	—		
		DPDT		—	—		—	—		
Tall	SPDT	2	—	—	—	—				
	DPDT		—	—	—	—				

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Series HS w/ Terminal Block	Tall	SPDT	1	Yellow	—	—	HA9	—		
		DPDT			—	—	HB9	—		
Series 8	Short	SPDT	1	Red	—	—	8AC	8HC		
				Yellow	—	—	8A9	8H9		
	Tall	SPDT	1	Red	8U7	8K7	8CC	8KC		
				Yellow	8U5	8K5	8C9	8K9		
				2	Red	8V7	8L7	8DC	8LC	
				Yellow	8V5	8L5	8D9	8L9		
			3	Red	877	867	8EC	88C		
				Yellow	875	865	8E9	889		
				Grp IV SPDT	1	Red	8M7	—	8MC	—
					Yellow	8M5	—	8M9	—	
	Short	DPDT	1	Red	—	—	8BC	8JC		
				Yellow	—	—	8B9	8J9		
	Tall	DPDT	1	Red	8W7	8D7	8FC	8NC		
				Yellow	8W5	8D5	8F9	8N9		
			2	Red	8Y7	8O7	8GC	8PC		
				Yellow	8Y5	8O5	8G9	8P9		
			Grp IV DPDT	1	Red	8Z7	—	8ZC	—	
				Yellow	8Z5	—	8Z9	—		
	Series 8 w/ 10' Wire Leads	Short	SPDT	1	Red	—	—	—	—	
					Yellow	—	—	—	—	
Tall		1			Red	—	—	—	—	
					Yellow	—	—	—	—	
		2			Red	—	—	—	—	
					Yellow	—	—	—	—	
3	Red	—	—	—	—					
	Yellow	—	—	—	—					

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Series 8 w/ 10' Wire Leads	Series 8 w/ 10' Wire Leads	Grp IV SPDT	1	Red	—	—	—	—			
				Yellow	—	—	—	—			
		Short	DPDT	1	Red	—	—	—	—	—	
					Yellow	—	—	—	—	—	
				Tall	1	Red	—	—	—	—	—
						Yellow	—	—	—	—	—
					2	Red	—	—	—	—	—
						Yellow	—	—	—	—	—
		Grp IV DPDT	1	Red	—	—	—	—	—		
				Yellow	—	—	—	—	—		
Series 9	Short	SPDT	1	Red	—	—	9AC	9HC			
				Yellow	—	—	9A9	9H9			
			Tall	1	Red	9U7	9K7	9CC	9KC		
					Yellow	9U5	9K5	9C9	9K9		
					2	Red	9V7	9L7	9DC	9LC	
						Yellow	9V5	9L5	9D9	9L9	
			3	Red	977	967	9EC	98C			
					Yellow	975	965	9E9	989		
				Grp IV SPDT	1	Red	9M7	—	9MC	—	
						Yellow	9M5	—	9M9	—	
	Short	DPDT	1	Red	—	—	9BC	9JC			
				Yellow	—	—	9B9	9J9			
			Tall	1	Red	9W7	9D7	9FC	9NC		
					Yellow	9W5	9D5	9F9	9N9		
				2	Red	9Y7	9O7	9GC	9PC		
					Yellow	9Y5	9O5	9G9	9P9		
	Grp IV DPDT	1	Red	9Z7	9P7	9ZC	9SC				
			Yellow	9Z5	9P5	9Z9	9S9				

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Series 9 w/ 10' Wire Leads	Short	SPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
	Tall		2	Red	—	—	—	—	
				Yellow	—	—	—	—	
	3		Red	—	—	—	—		
			Yellow	—	—	—	—		
	Grp IV SPDT	1	Red	—	—	—	—		
			Yellow	—	—	—	—		
	Short	DPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
	Tall		2	Red	—	—	—	—	
				Yellow	—	—	—	—	
Grp IV DPDT	1		Red	—	—	—	—		
			Yellow	—	—	—	—		
Series R	Short	SPDT	1	Yellow	—	—	RA9	RH9	
				Tall	Yellow	RU5	RK5	RC9	RK9
	2	Yellow	RV5	RL5	RD9	RL9			
		Grp IV SPDT	1	Yellow	RW5	RY5	RW9	RY9	
	Short	DPDT	1	Yellow	—	—	RB9	RJ9	
				Tall	Yellow	RF5	RN5	RF9	RN9
	2		Yellow	RG5	RO5	RG9	RP9		
			Grp IV DPDT	1	Yellow	RM5	RS5	RM9	RS9
	Series R w/								

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10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—
	Tall			Yellow	—	—	—	—
			2	Yellow	—	—	—	—
		Grp IV SPDT	1	Yellow	—	—	—	—
	Short	DPDT	1	Yellow	—	—	—	—
	Tall			Yellow	—	—	—	—
				2	Yellow	—	—	—
		Grp IV DPDT	1	Yellow	—	—	—	—

### Liquid Level Limit Switches. abc-defg-hij

#### Markings:



**Material: cast aluminum, base with cover:**  
 II 2 G Ex db IIC T6...T1 Gb -40°C ≤ Ta ≤ +70°C; IP66  
**Material: cast iron:**  
 II 2 G Ex db IIC T6...T1 Gb -40°C ≤ Ta ≤ +70°C

#### 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, O75, 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 table 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 Point	Magnet Dot Color	Ex db Cast Iron 3/4" NPT	Ex db Cast Iron M20 x 1.5	Ex db Cast Alum 1" NPT	Ex db Cast Alum M20 x 1.5	
Series B	Short	SPDT	1	Yellow	—	—	BA9	BH9	
				Red	—	—	BAC	BHC	
	Tall		2	Yellow	BU5	BK5	BC9	BK9	
				Red	BU7	BK7	BCC	BKC	
			2	Yellow	BV5	BL5	BD9	BL9	
				Red	BV7	BL7	BDC	BLC	
			3	Yellow	B75	B65	BE9	BM9	
				Red	B77	B67	BEC	BMC	
	Short		DPDT	1	Yellow	—	—	BB9	BJ9
					Red	—	—	BBC	BJC
	Tall			2	Yellow	BW5	BD5	BF9	BN9
					Red	BW7	BD7	BFC	BNC
				2	Yellow	BY5	BO5	BG9	BP9
					Red	BY7	BO7	BGC	BPC
Series C	Short	SPDT	1	Yellow	—	—	CA9	CH9	
				Red	—	—	CAC	CHC	
	Tall		2	Yellow	CU5	CK5	CC9	CK9	
				Red	CU7	CK7	CCC	CKC	
			2	Yellow	CV5	CL5	CD9	CL9	
				Red	CV7	CL7	CDC	CLC	
			3	Yellow	C75	C65	CE9	CM9	
				Red	C77	C67	CEC	CMC	
	Short		DPDT	1	Yellow	—	—	CB9	CJ9
					Red	—	—	CBC	CJC
	Tall			2	Yellow	CW5	CD5	CF9	CN9
					Red	—	—	—	—

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Series C	Tall	DPDT	1	Red	CW7	CD7	CFC	CNC		
			2	Yellow	CY5	CO5	CG9	CP9		
				Red	CY7	CO7	CGC	CPC		
Series D	Short	SPDT	1	Yellow	—	—	DA9	DH9		
				Yellow	DU5	DK5	DC9	DK9		
			2	Yellow	DV5	DL5	DD9	DL9		
	Tall	DPDT	3	Yellow	D75	D65	DE9	DM9		
			1	Yellow	—	—	DB9	DJ9		
				Yellow	DW5	DD5	DF9	DN9		
Series F	Short	SPDT	1	Yellow	—	—	FA9	FH9		
				Red	—	—	FAC	FHC		
			Tall	DPDT	2	Yellow	FV5	FL5	FD9	FL9
						Red	FV7	FL7	FDC	FLC
	Tall	DPDT	1	Yellow	—	—	FB9	FJ9		
				Red	—	—	FBC	FJC		
			2	Yellow	FW5	FD5	FF9	FN9		
				Red	FW7	FD7	FFC	FNC		
			2	Yellow	FY5	FO5	FG9	FP9		
				Red	FY7	FO7	FGC	FPC		
Series F w/ 10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—		
				Red	—	—	—	—		
			Tall	2	Yellow	—	—	—	—	
	Red				—	—	—	—		
	2		Yellow	—	—	—	—			
			Red	—	—	—	—			

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Series F w/ 10' Wire Leads	Short	DPDT	1	Yellow	—	—	—	—
				Red	—	—	—	—
	Tall		2	Yellow	—	—	—	—
				Red	—	—	—	—
Series G	Tall	SPDT	1	Yellow	—	—	—	—
				Red	—	—	—	—
		DPDT		Yellow	—	—	—	—
				Red	—	—	—	—
Series H	Tall	SPDT	1	Yellow	—	—	—	—
				Red	—	—	—	—
		DPDT		Yellow	—	—	—	—
				Red	—	—	—	—
Series I	Tall	SPDT	1	Yellow	—	—	—	—
				Red	—	—	—	—
		DPDT		Yellow	—	—	—	—
				Red	—	—	—	—
Series C for C10/C15	X-Tall	SPDT	3	Yellow	—	—	—	—
		DPDT		—	—	—	—	
Series B for C10/C15	X-Tall	SPDT	3	Yellow	—	—	—	—
		DPDT		—	—	—	—	
Series C	Tall	Grp IV SPDT	1	Yellow	—	—	SA9	SH9
		Grp IV DPDT			—	—	SB9	SJ9
Series D		Grp IV SPDT			—	—	SC9	SK9
		Grp IV DPDT			—	—	SF9	SN9

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Series U	Short	SPDT	1	Yellow	—	—	UA9	UH9		
				Red	—	—	UAC	UHC		
	Tall		1	Yellow	UU5	UK5	UC9	UK9		
				Red	UU7	UK7	UCC	UKC		
			2	Yellow	UV5	UL5	UD9	UL9		
				Red	UV7	UL7	UDC	ULC		
	3		Yellow	U75	U65	UE9	UM9			
			Red	U77	U67	UEC	UMC			
	Short		DPDT	1	Yellow	—	—	UB9	UJ9	
					Red	—	—	UBC	UJC	
				2	Yellow	UW5	UD5	UF9	UN9	
					Red	UW7	UD7	UFC	UNC	
Tall		2	Yellow	UY5	UO5	UG9	UP9			
			Red	UY7	UO7	UGC	UPC			
		Series W	Short	SPDT	1	Yellow	—	—	WA9	WH9
						Red	—	—	WAC	WHC
Tall	1		Yellow		WU5	WK5	WC9	WK9		
			Red		WU7	WK7	WCC	WKC		
	2		Yellow		WV5	WL5	WD9	WL9		
			Red		WV7	WL7	WDC	WLC		
3	Yellow	W75	W65		WE9	WM9				
	Red	W77	W67		WEC	WMC				
Short	DPDT	1	Yellow		—	—	WB9	WJ9		
			Yellow		WW5	WD5	WF9	WN9		
	Tall	2	Yellow		WY5	WO5	WG9	WP9		
			Yellow		WY5	WO5	WG9	WP9		
Series X	Short	SPDT	1	Yellow	—	—	XA9	XH9		
				Red	—	—	XAC	XHC		
	Tall			Yellow	XU5	XK5	XC9	XK9		

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Series X	Tall	SPDT	1	Red	XU7	XK7	XCC	XKC	
			2	Yellow	XV5	XL5	XD9	XL9	
				Red	XV7	XL7	XDC	XLC	
			3	Yellow	X75	X65	XE9	XM9	
					Red	X77	X67	XEC	XMC
	Short	DPDT	1	Yellow	—	—	XB9	XJ9	
	Tall				XW5	XD5	XF9	XN9	
				2		XY5	XO5	XG9	XP9
Series HS w/ Wire Leads	Short	SPDT	1	Yellow	—	—	—	—	
		DPDT			—	—	—	—	
	Tall	SPDT			—	—	—	—	
		DPDT			—	—	—	—	
			SPDT	2		—	—	—	—
			DPDT			—	—	—	—
Series HS w/ Terminal Block	Tall	SPDT	1		—	—	HA9	—	
		DPDT			—	—	HB9	—	
Series 8	Short	SPDT	1	Red	—	—	8AC	8HC	
				Yellow	—	—	8A9	8H9	
				Tall	Red	8U7	8K7	8CC	8KC
					Yellow	8U5	8K5	8C9	8K9
			2	Red	8V7	8L7	8DC	8LC	
				Yellow	8V5	8L5	8D9	8L9	
			3	Red	877	867	8EC	88C	
				Yellow	875	865	8E9	889	
		Grp IV SPDT	1	Red	8M7	—	8MC	—	
				Yellow	8M5	—	8M9	—	
	Short	DPDT	1	Red	—	—	8BC	8JC	
				Yellow	—	—	8B9	8J9	

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Series 8	Tall	DPDT	1	Red	8W7	8D7	8FC	8NC	
				Yellow	8W5	8D5	8F9	8N9	
			2	Red	8Y7	8O7	8GC	8PC	
				Yellow	8Y5	8O5	8G9	8P9	
			Grp IV DPDT	1	Red	8Z7	—	8ZC	—
					Yellow	8Z5	—	8Z9	—
Series 8 w/ 10' Wire Leads	Short	SPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
	Tall	SPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
			2	Red	—	—	—	—	
				Yellow	—	—	—	—	
			3	Red	—	—	—	—	
				Yellow	—	—	—	—	
	Grp IV SPDT	1	Red	—	—	—	—		
			Yellow	—	—	—	—		
	Short	DPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
	Tall	DPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
			2	Red	—	—	—	—	
				Yellow	—	—	—	—	
			Grp IV DPDT	1	Red	—	—	—	—
					Yellow	—	—	—	—
	Series 9	Short	SPDT	1	Red	—	—	9AC	9HC
					Yellow	—	—	9A9	9H9
		Tall			Red	9U7	9K7	9CC	9KC
					Yellow	9U5	9K5	9C9	9K9

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Series 9	Series 9	SPDT	2	SPDT	Red	9V7	9L7	9DC		
					Yellow	9V5	9L5	9D9	9L9	
			3	SPDT	Red	977	967	9EC	98C	
					Yellow	975	965	9E9	989	
			Grp IV SPDT	1	Red	9M7	—	9MC	—	
						Yellow	9M5	—	9M9	—
		Short	DPDT	1	Red	—	—	9BC	9JC	
					Yellow	—	—	9B9	9J9	
				2	Red	9W7	9D7	9FC	9NC	
					Yellow	9W5	9D5	9F9	9N9	
		Tall	DPDT	1	Red	9Z7	9P7	9ZC	9SC	
					Yellow	9Z5	9P5	9Z9	9S9	
				2	Red	9Y7	9O7	9GC	9PC	
					Yellow	9Y5	9O5	9G9	9P9	
		Series 9 w/ 10' Wire Leads	Short	SPDT	1	Red	—	—	—	—
						Yellow	—	—	—	—
2	Red				—	—	—	—		
	Yellow				—	—	—	—		
Tall	1			Red	—	—	—	—		
				Yellow	—	—	—	—		
	2			Red	—	—	—	—		
				Yellow	—	—	—	—		
Short	Grp IV SPDT		1	Red	—	—	—	—		
				Yellow	—	—	—	—		
			2	Red	—	—	—	—		
				Yellow	—	—	—	—		
	DPDT		1	Red	—	—	—	—		
				Yellow	—	—	—	—		
			2	Red	—	—	—	—		
				Yellow	—	—	—	—		
Tall	DPDT	1	Red	—	—	—	—			
			Yellow	—	—	—	—			
		2	Red	—	—	—	—			
			Yellow	—	—	—	—			

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Series 9 w/ 10' Wire Leads	Series 9 w/ 10' Wire Leads	2	DPDT	Red	—	—	—	—	
				Yellow	—	—	—	—	
		Grp IV DPDT	1	Red	—	—	—	—	
				Yellow	—	—	—	—	
Series R	Short	SPDT	1	Yellow	—	—	RA9	RH9	
				Tall	Yellow	RU5	RK5	RC9	RK9
	Tall	2	Yellow	RV5	RL5	RD9	RL9		
			Grp IV SPDT	1	Yellow	RW5	RY5	RW9	RY9
	Short	DPDT	1	Yellow	—	—	RB9	RJ9	
				Tall	Yellow	RF5	RN5	RF9	RN9
	Tall	2	Yellow	RG5	RO5	RG9	RP9		
			Grp IV DPDT	1	Yellow	RM5	RS5	RM9	RS9
	Series R w/ 10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—
					Tall	Yellow	—	—	—
		Tall	2	Yellow	—	—	—	—	
				Grp IV SPDT	1	Yellow	—	—	—
Short		DPDT	1	Yellow	—	—	—	—	
				Tall	Yellow	—	—	—	—
Tall		2	Yellow	—	—	—	—		
			Grp IV DPDT	1	Yellow	—	—	—	

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