



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX FMG 21.0032X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2023-11-26\)](#)
[Issue 0 \(2023-04-04\)](#)
Date of Issue: 2024-05-21
Applicant: **AMETEK Magnetrol USA, LLC**
705 Enterprise Street
Aurora, IL 60504
United States of America
Equipment: **Liquid Level Limit Switches and Boiler Water Level Controls**
Optional accessory:
Type of Protection: **Ex d**
Marking: See Annex under Equipment Marking

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
One Technology Way
Norwood MA 02062
United States of America





IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 21.0032X**

Page 2 of 5

Date of issue: 2024-05-21

Issue No: 2

Manufacturer: **AMETEK Magnetrol USA, LLC**
705 Enterprise Street
Aurora, IL 60504
United States of America

Manufacturing locations: **Magnetrol International N.V**
Heikensstraat 6
9240 Zele
Belgium

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/FMG/ExTR21.0034/00](#)

[US/FMG/ExTR21.0034/01](#)

[US/FMG/ExTR21.0034/02](#)

Quality Assessment Reports:

[CA/CSA/QAR06.0004/17](#)

[NL/DEK/QAR11.0031/08](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 21.0032X**

Page 3 of 5

Date of issue: 2024-05-21

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Liquid Level Limit Switches and Boiler Water Level Controls

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex under Specific Conditions of Use



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 21.0032X**

Page 4 of 5

Date of issue: 2024-05-21

Issue No: 2

Equipment (continued):

See Annex under Equipment



IECEX Certificate of Conformity

Certificate No.: **IECEX FMG 21.0032X**

Page 5 of 5

Date of issue: 2024-05-21

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of -40°C low ambient temperature.

Annex:

[Annex to IECEx FMG 21.0032X.02_1.pdf](#)

Annex to IECEx FMG 21.0032X.02

Marking:

Liquid Level Limit Switches. abc-defg-hik

Boiler Water Level Controls. abc-defg-hik

Enclosure (2 types):

- 1.) Material: cast aluminum alloy, base with cover:
Ex db IIC T6...T1 Gb $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$; IP66.
- 2.) Material: cast iron:
Ex db IIC T6...T1 Gb $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$.

Equipment:

Liquid Level Limit Switches.

Boiler Water Level Controls.

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

Liquid Level Limit Switches. abc-defg-hik

Model Code:

Liquid Level Limit Switches. abc-defg-hij

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.

Annex to IECEx FMG 21.0032X.02

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.

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	
			3	Yellow	BV5	BL5	BD9	BL9		
				Red	BV7	BL7	BDC	BLC		
	Short	DPDT	1	Yellow	—	—	BB9	BJ9		
				Red	—	—	BBC	BJC		
			Tall	2	Yellow	BW5	BD5	BF9	BN9	
					Red	BW7	BD7	BFC	BNC	
			3	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	DL9
					3	Yellow	D75	D65	DE9	DM9
	Short	DPDT	1	Yellow	—	—	DB9	DJ9		
				Yellow	DW5	DD5	DF9	DN9		
			Tall	2	Yellow	DY5	DO5	DG9	DP9	
					Yellow	—	—	—	—	
Series F	Short	SPDT	1	Yellow	—	—	FA9	FH9		
				Red	—	—	FAC	FHC		
			Tall	2	Yellow	FU5	FK5	FC9	FK9	
	Red				FU7	FK7	FCC	FKC		
	3		Yellow	FV5	FL5	FD9	FL9			

Annex to IECEx FMG 21.0032X.02

	Short	DPDT	1	Red	FV7	FL7	FDC	FLC		
				Yellow	—	—	FB9	FJ9		
	Red			—	—	FBC	FJC			
	Yellow			FW5	FD5	FF9	FN9			
	Tall		2	Red	FW7	FD7	FFC	FNC		
				Yellow	FY5	FO5	FG9	FP9		
Series F w/ 10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—		
				Red	—	—	—	—		
			Tall	2	Yellow	—	—	—	—	
					Red	—	—	—	—	
	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		
Series U	Short	SPDT	1	Yellow	—	—	UA9	UH9		
				Red	—	—	UAC	UHC		

Annex to IECEx FMG 21.0032X.02

	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
			2	Yellow	UW5	UD5	UF9	UN9
				Red	UW7	UD7	UFC	UNC
			3	Yellow	UY5	UO5	UG9	UP9
				Red	UY7	UO7	UGC	UPC
Series W	Short	SPDT	1	Yellow	—	—	WA9	WH9
				Red	—	—	WAC	WHC
			2	Yellow	WU5	WK5	WC9	WK9
				Red	WU7	WK7	WCC	WKC
			3	Yellow	WV5	WL5	WD9	WL9
				Red	WV7	WL7	WDC	WLC
	Tall	DPDT	1	Yellow	—	—	WB9	WJ9
				Yellow	WW5	WD5	WF9	WN9
			2	Yellow	WY5	WO5	WG9	WP9
				Yellow	WZ5	WO5	WG9	WP9
			3	Yellow	W75	W65	WE9	WM9
				Red	W77	W67	WEC	WMC
Series X	Short	SPDT	1	Yellow	—	—	XA9	XH9
				Red	—	—	XAC	XHC
			2	Yellow	XU5	XK5	XC9	XK9
				Red	XU7	XK7	XCC	XKC
			3	Yellow	XV5	XL5	XD9	XL9
				Red	XV7	XL7	XDC	XLC
	Tall	DPDT	1	Yellow	—	—	XB9	XJ9
				XW5	XD5	XF9	XN9	
			2	XZ5	XO5	XG9	XP9	
				XZ5	XO5	XG9	XP9	
			3	Yellow	X75	X65	XE9	XM9
				Red	X77	X67	XEC	XMC
Series HS w/ Wire Leads	Short	SPDT	1	Yellow	—	—	—	—
		DPDT			—	—	—	—
		SPDT			—	—	—	—
	Tall	SPDT	2		—	—	—	—
		DPDT			—	—	—	—
		SPDT			—	—	—	—
Series HS w/ Terminal Block	Tall	SPDT	1	—	—	HA9	—	
		DPDT		—	—	HB9	—	
Series 8	Short	SPDT	1	Red	—	—	8AC	8HC
				Yellow	—	—	8A9	8H9
				Red	8U7	8K7	8CC	8KC
				Yellow	8U5	8K5	8C9	8K9
	Tall	SPDT	2	Red	8V7	8L7	8DC	8LC
				Red	8V7	8L7	8DC	8LC

Annex to IECEx FMG 21.0032X.02

			3	Yellow	8V5	8L5	8D9	8L9		
				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	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	Red	—	—	—	—	
					Yellow	—	—	—	—	
				2	Red	—	—	—	—	
					Yellow	—	—	—	—	
	3		Red	—	—	—	—			
			Yellow	—	—	—	—			
	Grp IV SPDT		1	Red	—	—	—	—		
				Yellow	—	—	—	—		
	Short		DPDT	1	Red	—	—	—	—	
					Yellow	—	—	—	—	
		Tall			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
			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					Red	9W7	9D7	9FC	9NC
						Yellow	9W5	9D5	9F9	9N9
	2				Red	9Y7	9O7	9GC	9PC	
					Yellow	9Y5	9O5	9G9	9P9	
			1		Red	9Z7	9P7	9ZC	9SC	

Annex to IECEx FMG 21.0032X.02

		Grp IV DPDT		Yellow	9Z5	9P5	9Z9	9S9	
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
					Yellow	RU5	RK5	RC9	RK9
Tall		2	Yellow	RV5	RL5	RD9	RL9		
			Yellow	RW5	RY5	RW9	RY9		
Short		DPDT	1	Yellow	—	—	RB9	RJ9	
				Yellow	RF5	RN5	RF9	RN9	
			Tall	2	Yellow	RG5	RO5	RG9	RP9
					Yellow	RM5	RS5	RM9	RS9
			Grp IV DPDT	1	Yellow	—	—	—	—
					Yellow	—	—	—	—
Series R w/ 10' Wire Leads	Short	SPDT	1	Yellow	—	—	—	—	
				Yellow	—	—	—	—	
			Tall	2	Yellow	—	—	—	—
					Yellow	—	—	—	—
	Short	DPDT	1	Yellow	—	—	—	—	
				Yellow	—	—	—	—	
			Tall	2	Yellow	—	—	—	—
					Yellow	—	—	—	—
Grp IV DPDT	1	Yellow	—	—	—	—			
		Yellow	—	—	—	—			

Boiler Water Level Controls. abc-defg-hij

Boiler Water Level Controls. abc-defg-hij

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

Annex to IECEx FMG 21.0032X.02

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
	Tall		1	Yellow	BU5	BK5	BC9	BK9
				Red	BU7	BK7	BCC	BKC
	2		1	Yellow	BV5	BL5	BD9	BL9
				Red	BV7	BL7	BDC	BLC
	3	1	Yellow	B75	B65	BE9	BM9	
			Red	B77	B67	BEC	BMC	
	Short	DPDT	1	Yellow	—	—	BB9	BJ9
				Red	—	—	BBC	BJC
	Tall		1	Yellow	BW5	BD5	BF9	BN9
				Red	BW7	BD7	BFC	BNC
	2		1	Yellow	BY5	BO5	BG9	BP9
				Red	BY7	BO7	BGC	BPC
Series C	Short	SPDT	1	Yellow	—	—	CA9	CH9
				Red	—	—	CAC	CHC
	Tall		1	Yellow	CU5	CK5	CC9	CK9
				Red	CU7	CK7	CCC	CKC
	2		1	Yellow	CV5	CL5	CD9	CL9
				Red	CV7	CL7	CDC	CLC
	3	1	Yellow	C75	C65	CE9	CM9	
			Red	C77	C67	CEC	CMC	
	Short	DPDT	1	Yellow	—	—	CB9	CJ9
				Red	—	—	CBC	CJC
	Tall		1	Yellow	CW5	CD5	CF9	CN9
				Red	CW7	CD7	CFC	CNC
	2		1	Yellow	CY5	CO5	CG9	CP9
				Red	CY7	CO7	CGC	CPC
Series D	Short	SPDT	1	Yellow	—	—	DA9	DH9
				Tall	Yellow	DU5	DK5	DC9
	2		Yellow	DV5	DL5	DD9	DL9	
		3	Yellow	D75	D65	DE9	DM9	
	Short	DPDT	1	Yellow	—	—	DB9	DJ9
				Tall	Yellow	DW5	DD5	DF9
2	Yellow		DY5	DO5	DG9	DP9		
Series F	Short	SPDT	1	Yellow	—	—	FA9	FH9
				Red	—	—	FAC	FHC
	Tall		1	Yellow	FU5	FK5	FC9	FK9
				Red	FU7	FK7	FCC	FKC
	2		1	Yellow	FV5	FL5	FD9	FL9
				Red	FV7	FL7	FDC	FLC

Annex to IECEx FMG 21.0032X.02

	Short	DPDT	1	Yellow	—	—	FB9	FJ9			
	Tall			Red	—	—	FBC	FJC			
				Yellow	FW5	FD5	FF9	FN9			
	Tall			Red	FW7	FD7	FFC	FNC			
			2	Yellow	FY5	FO5	FG9	FP9			
	Tall			Red	FY7	FO7	FGC	FPC			
Series F w/ 10' Wire Leads		Short	SPDT	1	Yellow	—	—	—	—		
	Red				—	—	—	—			
	Tall				Yellow	—	—	—	—		
					Red	—	—	—	—		
	Tall	2		Yellow	—	—	—	—			
				Red	—	—	—	—			
				Short	DPDT	1	Yellow	—	—	—	—
							Red	—	—	—	—
	Tall	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			
Series U	Short	SPDT	1	Yellow	—	—	UA9	UH9			
				Red	—	—	UAC	UHC			
	Tall			Yellow	UU5	UK5	UC9	UK9			

Annex to IECEx FMG 21.0032X.02

			2	Red	UU7	UK7	UCC	UKC		
				Yellow	UV5	UL5	UD9	UL9		
			3	Red	UV7	UL7	UDC	ULC		
				Yellow	U75	U65	UE9	UM9		
			Red	U77	U67	UEC	UMC			
				Short	DPDT	1	Yellow	—	—	UB9
	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				
Series W	Short	SPDT	1	Yellow	—	—	WA9	WH9		
				Red	—	—	WAC	WHC		
				Yellow	WU5	WK5	WC9	WK9		
				Red	WU7	WK7	WCC	WKC		
	Tall		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		
				Series X	Short	SPDT	1	Yellow	—	—
	Red	—	—					XAC	XHC	
	Yellow	XU5	XK5					XC9	XK9	
Red	XU7	XK7	XCC					XKC		
Tall	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		
				XW5	XD5	XF9	XN9			
Tall		2		XY5	XO5	XG9	XP9			
				Series HS w/ Wire Leads	Short	SPDT	Yellow	1	—	—
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		

Annex to IECEx FMG 21.0032X.02

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

Annex to IECEx FMG 21.0032X.02

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	
				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	
				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	—	—	—	—
					Yellow	—	—	—	—
Tall		2	Yellow	—	—	—	—		
			Grp IV SPDT	1	Yellow	—	—	—	—
Short		DPDT	1	Yellow	—	—	—	—	
				Yellow	—	—	—	—	
Tall		2	Yellow	—	—	—	—		
			Grp IV DPDT	1	Yellow	—	—	—	—

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 IECEx 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.