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 ETL 17.0008X**

Certificate history:
Issue 0 (2017-04-07)

Status: **Current**

Issue No: 1

Date of Issue: 2019-11-19

Applicant: **Westlock Controls Corporation**
280 Midland Avenue
Saddle Brook, NJ 07663
United States of America

Equipment: **2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 Series Valve Position Monitor**

Optional accessory:

Type of Protection: **Flameproof 'db' and Protection by Enclosure 'tb'**

Marking: Ex db IIB+H2 T* Gb Tamb -*ºC to +* ºC

Ex tb III C T* Db Tamb -*ºC to +* ºC IP6X

* Ambient temperature dependent upon configuration, see equipment description for details.

IECEx ETL 17.0008X

Approved for issue on behalf of the IECEx Certification Body: **Todd L. Relyea**

Position: **Certification Officer**

Signature:
(for printed version)

Date:

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:

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Cortland NY 13045-2995
United States of America

IECEx Certificate of Conformity

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Date of issue: 2019-11-19 Issue No: 1

Manufacturer: **Westlock Controls Corporation**
280 Midland Avenue
Saddle Brook, NJ 07663
United States of America

Additional manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ETL/ExTR17.0009/00 US/ETL/ExTR17.0009/01

Quality Assessment Report:

US/FMG/QAR08.0002/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The 2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 series enclosure comprises of two parts, a cover and housing. The cover has three variations, flat cover, standard beacon cover or a high cover to suit different applications. The enclosure can be constructed of either aluminum or stainless steel. The housing can offer up to four of the following conduit or cable entries; M20 x 1.5p, M25 x 1.5p, 1/2”–14NPT or 3/4”-14 NPT for connection to an external power source via appropriate IECEx certified cable glands or conduit seals. When using conduit the enclosure must be sealed at the enclosure wall using a suitably certified conduit seal. All the valve position monitor provides two methods of end of travel indication by the means of mechanical switches, inductive proximity sensors, or proximity switches and an external visual indicator. For applications that require position feedback, ancillary components such as a 4-20mA current signal transmitter or a resistive signal feedback can be installed. The 2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 product can be used with different network communication bus protocols. The series enclosure can also house various network modules.

See Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Temperatures at the cable entry point can exceed 70°C and 80°C at the branching point. Selection of cable must be appropriate for the ambient temperature range.
- The certification applies to the enclosure without cable glands, only suitably approved flameproof cable glands may be used with an ingress protection rating of IP6X.
- When conduit is utilised the conduit must be sealed in accordance with clause 13.2.2 of IEC 60079-1:2007 with a suitably approved conduit sealing device.
- All unused entries must be plugged with suitably approved flameproof blanking elements with an ingress protection rating of IP6X.
- The equipment is provided with a serial number label externally, if required by the end user Westlock Controls will supply an internal serial number label.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings.
- Only suatibly certified thread adapters must be used.
- Flamepath joints are not intended to be repaired.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updated Models from '2200, 2007, or 9479 Series Valve Position Monitor' to '2200, 2007, 9479, E2007, E9479, D280, D290, D281, or D291 Series Valve Position Monitor'
- Expanded the ambient temperature range for the aluminum enclosure from '-20°C/-30°C to +110°C' to '-50°C to +110°C' and the ambient range for the stainless steel enclosure from '-60°C to +110°C' to '-70°C to +110°C'
- Updated associated model structures within the Annex to be more clearly delineated in accordance with the ambient temperature ranges, applicable temperature codes, and the equipment each Valve Position Monitor is populated with.

Annex:

Annex to IECEx certificate IECExETL17.0008X_01.pdf

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Certificate No:	IEC Ex ETL 17.0008X	Issue No. 01
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Manufacturer's Drawings associated with Issue 01 of this certificate:

Technical Documents			
Title:	**Drawing No.:**	**Rev. Level:**	**Date:**
2200 Series IECEx Label Master	LB-040802UK	G	05/12/14
Installation & Operating Instructions. Westlock 2200 Series	VCIOM 05080	--	03/17/2017
Digital EPIC D200 Models Operating Manual: D281/D291	TECH-546	X	08/05/2019
Quickstart Installation and Operation Manual - XP Eliminator Rotary Models: E2007/E9479	TECH-498Q	A	11/05/2015
Accutrak Rotary Models 1040/9358/2004/9044/9468/5004/5044/20047/9479/5050 Installation and Operations Manual	TECH-385-EN	-	02/2018
N7 Enclosure Assembly 2007/9479/D280/D290/D291 Certification Drawing (3 Sheets)	MS-10449	P	11/07/2019
Certification Drawing Global 2007, 9479, 2200, D280, D290, D281, D291 ATEX, IECEx, USA/CA (3 Sheets)	MS-10766	D	11/07/2019
ID LBL GLBL 2007 – A/S (3 Sheets)	LB-11860-XXX	--	04/30/2019
ID LBL GLBL E2007 – A/S (3 Sheets)	LB-11861-XXX	--	05/01/2019
ID LBL GLBL 9479 – A/S (4 Sheets)	LB-11862-XXX	--	05/02/2019
ID LBL GLBL E9479 – A/S (6 Sheets)	LB-11863-XXX	--	05/01/2019
ID LBL GLBL D281 / D291 (2 Sheets)	LB-11873-XXX	A	10/09/2019
ID LBL GLBL D280 / D290 NEC/ATEX/IECEx (2 Sheets)	LB-11884-XXX	--	10/09/2019

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Equipment Description Continued:

The below table signifies the possible enclosure material and corresponding acceptable ambient temperature and T-code for the model series 2200, 2007, 9479, E2007, E9479, D280, D290, D281, and D291.

Aluminum Enclosure		
Series Code	**Ambient Range**	**T Class**
2200 / 2007 / 9479 / E2007 / E9479 / D280 / D281	-50°C to +60°C	T6 (80°C)
2200 / 2007 / 9479 / E2007 / E9479 / D280 / D281	-50°C to +75°C	T5 (95°C)
2200 / 2007 / 9479 / E2007 / E9479 / D280 / D281	-50°C to +110°C	T4 (130°C)
Stainless Steel Enclosure		
Series Code	**Ambient Range**	**T Class**
2200 / 2007 / 9479 / E2007 / E9479 / D290 / D291	-70°C to +60°C	T6 (80°C)
2200 / 2007 / 9479 / E2007 / E9479 / D290 / D291	-70°C to +75°C	T5 (95°C)
2200 / 2007 / 9479 / E2007 / E9479 / D290 / D291	-70°C to +110°C	T4 (130°C)

The below table signifies the ambient temperature range of use and the corresponding T Class of the item if the option for a solenoid is employed. Note the solenoid option is only for model series 2200, E2007, E9479, D280, and D290. See the respective solenoid column of the Model Breakdown Table on the following pages.

Solenoid Option for Models 2200 Ambient Range & Temperature Class		
Coil Type	**Ambient Range**	**T Class**
Pneumatrol Coil	-20°C to +80°C	T4 (130°C)
The 2200 model family has an upper ambient limit of +80°C and T class of T4 as noted within that model family table.		

Solenoid Option for Models E2007, E9479, D280, and D290 Ambient Range & Temperature Class		
O-Ring Material:	**Ambient Range**	**T Class**
EPDM**	-55°C to +60°C	T4 (130°C)
LT Buna	-40°C to +52°C	T4 (130°C)
Buna	-20°C to +60°C	T4 (130°C)
**NOTE: This only applies if the item's enclosure is stainless steel. If the enclosure is Aluminum, then the ambient range can only be -50°C to +60°C. This information is taken from IECEx SIR 09.0044X for the Versa X(TAB) models with F-class coils and a rated power of 1.80W, 0.85W, and 0.50W.		

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Once the desired enclosure material, ambient temperature range, and needed T-code is chosen; the Valve Position Monitor is then further broken down according to the following tables for each model family for its final configuration:

Model 2200 Break Down															
2200 A B C D E F G H I J K L M															
A = Cover Style		B = Switch Type		C = Material		D = Beacon Type		E = Shaft Output		F = Solenoid Body Material		**G = Solenoid Coil Voltage		H = Solenoid Valve Specification	
4	With Beacon	3	SDPT Go Switches; Each Switch rated 4 A, 120 Vac / 50 mA, 24 Vdc	A	Aluminum	ANY	Can be any code such as: BY, RG, FE, AB, AR, B1, B3, B5, B7, B9, or FC	S	Standard (Double D-1/4" Flats	0	None	0	None	0	None
6	No Visual Beacon	5	SDPT Mechanical Switches; Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc	S	316 Stainless Steel			N	Namur	A	Anodized aluminum	C	24 VDC, 0.7W	Any	3/2 Way or 5/2 Way
		6	DPDT Mechanical Switches; Each Switch rated 10 A, 125/250 Vac / 10 A, 24 Vdc							E	Stainless Steel	G	90-120 VDC, 1W		
		7	Inductive Sensor									H	90-120 VAC, 5.8VA		
		9	Magnum SDPT Switches; Each Switch rated 3A, 120 Vac / 2A, 24 Vdc									J	220-240 VAC, 4.8VA		
		0	No switches fitted									1	24 VDC, 0.7W + 4- 20 mA Transmitter		
												2	90-120 VDC, 1W + 4- 20 mA Transmitter		
												3	220-240 VAC, 4.8VA + 4- 20 mA Transmitter		

I = Switch / Sensor Quantity		J = Conduit		K = Unit Specification		L = Certification		M = Revision	
0	None	Any	Up to four conduit entries	Any	Can be any code such as: AAA, ABM, ADZ, BEI, DAV, FAN, GAN, UAV, BGY, BIP	A	ATEX	R	Revision Number
Any	Up to Four Switches / Sensors					I	IECEx		
**Note: This option has a T4 rating and reduces the upper ambient to +80°C.									

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Model 2007 Break Down											
2007 A B C D E F											
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Unit Specialty Code	
S	Standard (Double D-1/4" Flats	ANY	Can be any code such as: BY, RG, FE, AB, AR, B1, B3, B5, B7, B9, or FC	2A	Two 1/2NPT (F) - **Not permitted with switch options 6M02 or 4M04**	2M02	Two SDPT Mechanical Switches; Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc	00	None	00124	Stainless Steel Enclosure
D	Direct mount to keystone 79U of MRP actuators			2B	Two 3/4NPT (F) - **Not permitted with switch options 6M02 or 4M04**	4M02	Four SPDT Mechanical Switches, Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc	DS	4-20 mA -9.0 Vdc to 30 Vdc Position Transmitter – 12 pt TS w/ 2M02, 16 PT. TS w/ 2M04 & 4M02. (Not Available w/ 4M04, 6M02, 2M03, 4M03 Switch Options) ***Note: This option has a T4 rating***		
N	Namur			2E	One 3/4NPT (F), One 1/2NPT (M) Global Eliminator Fitting Eliminator Fitting is 1/2NPT (M) for the purpose of mounting an aftermarket solenoid valve.	6M02	Six SPDT Mechanical Switches, Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc				
				4A	Four 1/2NPT (F)	2M04	Two DPDT Mechanical Switches; Each Switch rated 10 A, 125/250 Vac / 10 A, 24 Vdc				
				4B	Four 3/4NPT (F)	4M04	Four DPDT Mechanical Switches; Each Switch rated 10 A, 125/250 Vac / 10 A, 24 Vdc				
				4E	Two 3/4NPT (F), One 1/2NPT (F) & One 1/2NPT (M) Global Eliminator Fitting*	2M03	Two SDPT Go Switches; Each Switch rated 4 A, 120 Vac / 50 mA, 24 Vdc				
				4F	Two 3/4NPT (F) & Two 1/2NPT (M) Global Eliminator Fittings*	4M03	Two SDPT Go Switches; Each Switch rated 4 A, 120 Vac / 50 mA, 24 Vdc				
				EA	Two 3/4NPT (F) & Two 1/2NPT (F)						
				2M	Two M20 (F) - **Not permitted with switch options 6M02 or 4M04**						
				4M	Four M20 (F)						
				2S	Two M25 (F)						
				4S	Four M25 (F)						

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Model E2007 Break Down													
E2007 A B C D E F G													
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Solenoid Coil Option		G = Unit Specialty Code	
S	Standard (Double D-1/4" Flats	ANY	Can be any code such as: BY, RG, FE, AB, AR, B1, B3, B5, B7, B9, or FC	2E	Two ¾" NPT (F)	2M02	Two SDPT Mechanical Switches; Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc	00	None	00	None	00124	Stainless Steel Enclosure
D	Direct mount to keystone 79U of MRP actuators			4E	Two ¾" NPT (F) & One ½" NPT (F), One ½ NPT (M) Eliminator Fitting Eliminator Fitting is 1/2NPT (M) for the purpose of mounting an aftermarket solenoid valve.	4M02	Four SPDT Mechanical Switches, Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc	DS	4-20 mA -9.0 Vdc to 30 Vdc Position Transmitter – 12 pt TS w/ 2M02, 16 PT. TS w/ 2M04 & 4M02. (Not Available w/ 4M04, 6M02, 2M03, 4M03 Switch Options) ***Note: This option has a T4 rating***	ET	24 VDC, 1.80 W ***Note: See Solenoid Option Table***		
N	Namur			EM	Three M20 (F), One ½ NPT (M) Global Eliminator Fitting	6M02	Six SPDT Mechanical Switches, Each Switch rated 15 A, 125/250 Vac / 6 A, 24 Vdc			EZ	120 VDC, 1.8 W ***Note: See Solenoid Option Table***		
						2M04	Two DPDT Mechanical Switches; Each Switch rated 10 A, 125/250 Vac / 10 A, 24 Vdc			EY	24 VDC, 0.85 Watt ***Note: See Solenoid Option Table***		
						2M03	Two SDPT Go Switches; Each Switch rated 4 A, 120 Vac / 50 mA, 24 Vdc						

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Model 9479 Break Down											
9479 A B C D E F											
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Unit Specialty Code	
S	Standard (Double D-1/4" Flats	ANY	Can be any code such as: BY, RG, FE, AB, AR, B1, B3, B5, B7, B9, or FC	2A	00124	Up to 6M06	SPDT Magnum Switches -8 to 24 pt. Terminal Strip Each Switch rated 3A, 120 Vac / 2A, 24 Vdc	00	None	00124	Stainless Steel Enclosure
D	Direct mount to keystone 79U of MRP actuators			2B	Two ¾ NPT (F) - ***not permitted with 6 SPDT or 4 DPDT switch options***	Up to 6M08	P+F NJ2-V3-N NAMUR Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip	DS	4-20 mA -9.0 Vdc to 30 Vdc Position Transmitter – 12 pt TS w/ 2M06 & 2M12, 16 PT. TS w/ 4M06 & 4M12. (Not Available w/ 2M13, 4M14, 6M06, 6M12, & 6M14 Switch Options) ***Note: This option has a T4 rating***		
N	Namur			2E	One ¾ NPT (F), One ½ NPT (M) Global Eliminator Fitting****- not permitted with 6 SPDT or 4 DPDT switch options***	Up to 6M10	SPST Magnum Switches - 8 to 16 pt. Terminal Strip Each Switch rated 3A, 120 Vac / 2A, 24 Vdc				
				4A	Four ½ NPT (F)	Up to 6M12	SPDT Magnum Switches, Rhodium Contacts - 8 to 24 pt. Terminal Strip				
				4B	Four ¾ NPT (F)	2M13	MagPAC Module (Two SPST Bifurcated Reeds), Diagnostic LEDs - 12 pt. Terminal Strip				
				4E	Two ¾ NPT (F), One ½ NPT (F) & One 1/2NPT (M) Global Eliminator Fitting*	Up to 4M17	DPDT Magnum Cobra - 12 to 24 pt. Terminal Strip, High Cover, 4 Conduits				
				4F	Two ¾ NPT (F) & Two ½ NPT (M) Global Eliminator Fittings*	Up to 4M18	DPDT Magnum Cobra, Rhodium Contacts - 12 to 24 pt. Terminal Strip, High Cover, 4 Conduits				
				EA	Two ¾ NPT (F) & Two ½ NPT (F)	Up to 6M14	SPST Super Magnum Switches (Bifurcated Reed) - 8 to 16 pt. Terminal Strip				
				2M	Two M20 (F)- ***not permitted with 6 SPDT or 4 DPDT switch options***	Up to 4MA5	P+F NJ2-12GK-SN Inductive Proximity Sensors - 8 to 12 pt. Terminal Strip				

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Model 9479 Break Down											
9479 A B C D E F											
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Unit Specialty Code	
				4M	Four M20 (F)	Up to 6MAO	P+F SJ3.5-N Slotted Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip				
				2S	Two M25 (F)	Up to 6MAP	P+F SJ3.5-SN Slotted Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip				
				4S	Four M25 (F)	Up to 4MAV	P+F NJ2-11-SN-G Inductive Proximity Sensors - 8 to 12 pt. Terminal Strip				
						2MEA	P+F NJ5-18GK-SN Inductive Proximity Sensors - 8 pt. Terminal Strip				
						Up to 4MEB	P+F NJ4-12GM-N Inductive Proximity Sensors - 8 to 12 pt. Terminal Strip				
						Up to 4MEH	P+F NCB2-12GM40-Z0 Inductive Proximity Sensors - 8 to 12 pt. Terminal Strip				
						2MEM	P+F NJ3-18GK-S1N Inductive Proximity Sensors - 8 pt. Terminal Strip				
						Up to 6MEO	P+F NBB2-V3-US Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip ***(Class 1 Div. 1 ONLY)***				
						Up to 6MEP	P+F NBB2-V3-E2 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip				
						Up to 4MEQ	P+F NJ2-12GM40-E2 Inductive Proximity Sensors, 8-12 pt. Terminal Strip				
						Up to 6MES	P+F NBB3-V3-Z4 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip				
						Up to 6MEU	P+F NBB2-V3-E0 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip				

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Model 9479 Break Down											
9479 A B C D E F											
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Unit Specialty Code	
						Up to 4MEX	P+F NJ4-12GK-SN Inductive Proximity Sensors - 8 to 12 pt. Terminal Strip				

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Model E9479 Break Down													
E9479 A B C D E F G													
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Solenoid Coil Option		G = Unit Specialty Code	
S	Standard (Double D-1/4" Flats	ANY	Can be any code such as: BY, RG, FE, AB, AR, B1, B3, B5, B7, B9, or FC	2E	One 3/4NPT (F) & One 1/2NPT (M) Eliminator Fitting	Up to 6M06	SPDT Magnum Switches - 8 to 24 pt. Terminal Strip	00	None	00	None	00124	Stainless Steel Enclosure
D	Direct mount to keystone 79U of MRP actuators			4E	Two 3/4NPT (F), One 1/2NPT (F) & One 1/2NPT (M) Eliminator Fitting	Up to 6M08	P+F NJ2-V3-N NAMUR Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip	DS	4-20 mA -9.0 Vdc to 30 Vdc Position Transmitter Available only w/ 12 pt. TS and 2M06, 2M12, 2M08 OR w/ 16 pt. TS, 4M06, 4M12, 4M08 and high cover ***Note: This option has a T4 rating***	ET	24 VDC, 1.80 W ***Note: See Solenoid Option Table***		
N	Namur			EM	Three M20 (F) & One 1/2NPT (M) Eliminator Fitting	Up to 6M12	SPDT Magnum Switches, Rhodium Contacts - 8 to 24 pt. Terminal Strip			EZ	120 VDC, 1.8 W ***Note: See Solenoid Option Table***		
						2M13	MagPAC Module (Two SPST Bifurcated Reeds), Diagnostic LEDs - 16 pt. Terminal Strip			EY	24 VDC, 0.85 Watt ***Note: See Solenoid Option Table***		
						2M17	Two DPDT Magnum Cobra - 16 pt. Terminal Strip, High Cover, 4 Conduits						
						2M18	Two DPDT Magnum Cobra, Rhodium Contacts - 16 pt. Terminal Strip, High Cover, 4 Conduits						
						Up to 6M14	SPST Super Magnum Switches (Bifurcated Reed) - 8 to 16 pt. Terminal Strip						
						Up to 4MA5	P+F NJ2-12GK-SN Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 6MAO	P+F SJ3.5-N Slotted Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						

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Model E9479 Break Down																	
E9479 A B C D E F G																	
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Solenoid Coil Option		G = Unit Specialty Code	
						Up to 6MAP	P+F SJ3.5-SN Slotted Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 4MAV	P+F NJ2-11-SN-G Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						2MEA	P+F NJ5-18GK-SN Inductive Proximity Sensors - 16 pt. Terminal Strip						
						Up to 4MEB	P+F NJ4-12GM-N Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 4MEH	P+F NCB2-12GM40-Z0 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						2MEM	P+F NJ3-18GK-S1N Inductive Proximity Sensors - 16 pt. Terminal Strip						
						Up to 6MEO	P+F NBB2-V3-US Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip ***(Class 1 Div. 1 ONLY)***						
						Up to 6MEP	P+F NBB2-V3-E2 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 4MEQ	P+F NJ2-12GM40-E2 Inductive Proximity Sensors, 8-16 pt. Terminal Strip						
						Up to 6MES	P+F NBB3-V3-Z4 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 6MEU	P+F NBB2-V3-E0 Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						

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Annex No. 1		

Model E9479 Break Down															
E9479 A B C D E F G															
A = Shaft Output		B = Cover Type		C = Conduit Entry		D = Position Switches		E = Position Transmitter		F = Solenoid Coil Option		G = Unit Specialty Code	
						Up to 4MEX	P+F NJ4-12GK-SN Inductive Proximity Sensors - 8 to 16 pt. Terminal Strip						
						Up to 6M06	SPDT Magnum Switches - 8 to 24 pt. Terminal Strip						

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Model D280/ D290 Break Down															
D280 / D290 A B C D E F G H															
A = Shaft Output		D = Position Switches		C = Beacon Option		D = Solenoid Coil Option		E = Falcon Valve Body		F = Valve Option		G = Approval Option		H = Conduit Options	
NP	Potentiometer / NAMUR Output Shaft	2M04	(2) DPDT mechanical - ***D280/D290 ONLY***	aa	Beacon cover with any beacon option	0	None	bbb	Any valve body option	0	Any valve option (low temperature body options modify coil to low-temp. coil)	EX	Flameproof	2	M20 (Quantity based on options)
NT	Non-Contact Sensor / NAMUR Output Shaft	2M06	(2) SPDT Magnum XT-90 proximity*	FC	Flat Cover (no beacon)	T	24 VDC Explosionproof, 1.8W, Potted Hub ***(D280, D290 ONLY) - standard and low-temperature coils*** ***Note: See Solenoid Option Table***							3	3/4NPT (Quantity based on options) ****
SP	Potentiometer / Standard Output Shaft	2M08	(2) P&F NJ2-V3-N inductive proximity			Z	120 VAC Explosionproof, 1.8W, Potted Hub ***(D280, D290 ONLY) - standard and low-temperature coils*** ***Note: See Solenoid Option Table***								
ST	Non-Contact Sensor / Standard Output Shaft	2M09	(2) SPDT mechanical, gold contacts ***(require suitable barrier for Div. 2 installation)***												
		2M12	(2) SPDT Magnum XT-90 proximity, rhodium contacts*												
		4M06	(4) SPDT Magnum XT-90 proximity*, high cover - **D280/D290 ONLY**												
		4M08	(4) NJ2-V3-N inductive proximity, high cover - ***D280/D290 Only***												

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Model D280/ D290 Break Down																			
D280 / D290 A B C D E F G H																			
A = Shaft Output		D = Position Switches		C = Beacon Option		D = Solenoid Coil Option		E = Falcon Valve Body		F = Valve Option		G = Approval Option		H = Conduit Options	
		4M09	(4) SPDT mechanical, gold contacts, high cover - **D280/D290 ONLY**												
		4M12	(4) SPDT Magnum XT-90 proximity, rhodium contacts, high cover - **D280/D290 ONLY**												

*D280 is Aluminum. D290 is Stainless Steel.

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Model D281/ D291 Break Down									
D281 / D291 A B C D E									
A = Shaft Output		B = Position Switches		C = Beacon Type		D = Approval Options		E = Conduit Option	
NP	Potentiometer/NAMUR Output Shaft	0000	None	aa	Beacon cover with any beacon option	EX	Flameproof	2	M20 (Quantity based on options)
NT	Non-Contact Sensor/NAMUR Output Shaft	2M04	Two DPDT Mechanical Switches; Each Switch rated 10 A, 125/250 Vac / 10 A, 24 Vdc	FC	Flat Cover (no beacon)			3	3/4NPT (Quantity based on options) ****
SP	Potentiometer/Standard Output Shaft	2M06	Two Magnum SDPT Switches; Each Switch rated 3A, 120 Vac / 2A, 24 Vdc						
ST	Non-Contact Sensor/Standard Output Shaft	2M08	Two NJ2-V3-N (SPDT MagnumXT-90 Inductive Proximity Sensor), Each Rated 5-25 VDC						
		2M09	Two SPDT Mechanical Switches with gold contacts						
		2M12	Two Magnum SDPT Switches with Rhodium Contacts; Each Switch rated 200 mA, 120 Vac / 1A, 24 Vdc						
		4M06	Four Magnum SDPT Switches; Each Switch rated 3A, 120 Vac / 2A, 24 Vdc						
		4M08	Four NJ2-V3-N (SPDT MagnumXT-90 Inductive Proximity Sensor), Each Rated 5-25 VDC						
		4M09	Four SPDT Mechanical Switches with gold contacts						
		4M12	Four Magnum SDPT Switches with Rhodium Contacts; Each Switch rated 200 mA, 120 Vac / 1A, 24 Vdc						

*D281 is Aluminum. D291 is Stainless Steel.

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