

ORDERING GUIDE

Revised October 1st, 2017*

TopWorx™ Switchbox • GO™ Switch • Safety Shower Mounting Kits • VIP Mounting Kits

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*This price list dated October 1st, 2017 supersedes all previous price lists. Prices and specifications are subject to change without notice. If printed, this document is uncontrolled. Refer to password-protected Distributor Support Center at www.topworx.com for the most updated pricing and options.

TopWorx™ D-Series, DXP, DXR & DXS

Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries
<p>DXP Tropicalized Aluminum</p> <p>DXR Composite Resin ("S" Silicone O-Rings only; Stainless steel conduit entries) (Area Classification "0" only available with ATEX/IECEX approvals)</p> <p>DXS 316 Stainless steel</p>	<p>Bus Network AS AS-Interface w(2) SPDT GO Switches (Area class cannot be 0) *FF Foundation Fieldbus w/ 0 -10K Pot *FL Foundation Fieldbus w/(2) SPDT GO Switches *FP Foundation Fieldbus w/(2) SPDT GO Switches and 0-10K Pot DN DeviceNet w(2) SPDT GO Switches (Area class cannot be 0) PB Profibus w/(2) SPDT GO Switches (Area class cannot be 0) Partial Stroke Test ES ESD/PST Module w/GO Switch (Area class cannot be 0) GO Switches L2 (2)GO Switches SPDT hermetic seal L4 (4)GO Switches SPDT hermetic seal(not available with pilot) Z2 (2)GO Switches DPDT hermetic seal Z4 (4)GO Switches DPDT hermetic seal, (not available with pilot) Mechanical Switches (Area class cannot be 2, DXR with G approval not available with pilot) M2 (2)Mech SPDT M4 (4)Mech SPDT M6 (6)Mech SPDT T2 (2)Mech DPDT K2 (2)Mech SPDT gold contacts K4 (4)Mech SPDT gold contacts Proximity Switches R2 (2) SPDT Prox switches R4 (4) SPDT Prox switches (R2 & R4 only available with DXR and Ex me certification) Inductive Sensors E2 (2) p+f NJ2-V3-N inductive NAMUR E4 (4) p+f NJ2-V3-N inductive NAMUR Analog Output (Available with 2-switch options only for L,Z,M,K,E,T) _X 4-20mA transmitter _H 4-20mA transmitter with HART (Not available with switch option T; LH, ZH not available w/pilot valve) (LH, ZH Not available with DXR) Example: LH =(2) GO Switches with HART™ transmitter * *FF, *FL and *FP with Area Classification "0" has an ib protection</p>	<p>0 Intrinsically safe (Bus/sensor cannot be AS, DN, ES, PB, or _X; Requires appropriate I.S. barrier) - North America Class I Div 1&2 Groups A, B, C, D Type 4, 4X - ATEX/IECEX Zone 0 II2GD, T6/T4 Ex ia IIC Ex tb IIIC, IP66/67 (Foundation Fieldbus) Zone 1, Ex ib IIC T4, IP67</p> <p>1 Explosion proof / Flame proof (DXP/S only) - North America Class I Div 1 Groups C, D; Class I Div 2, Groups A, B, C, D. (Groups A & B must be hermetically sealed) Type 4, 4X, - ATEX/IECEX Zone 1 II2G, II2GD, T6/T4/T3 Ex d IIB+H2 Ex tb IIIC IP66/67 (O-Rings must be S for DUST certification)</p> <p>2 Non-incendive (Bus/sensor must be L, Z, P, E, AS, FF, _X, _H, _E or DN) - North America Class I Div 2 Groups A, B, C, D; Class II Div 2 Groups F,G - ATEX (DXP/S only) II3G Ex nA nC tb, IP66/67 (O-Rings must be S for DUST certification)</p> <p>G General Purpose Type 4, 4X (not available with DXR with mechanical switches)</p> <p>C Flameproof (DXS not available with valve; Conduit entries must be E or M) ATEX/IECEX II2G, II2GD, T6/T4/T3 Ex d IIC Ex tb IIIC IP66/67</p> <p>M Flameproof (only available with R2 and R4 sensor options) (DXR only) ATEX/IECEX Zone 1, II2GD Ex e mb IIC T4, Ex tb IIIC T66 IP67 (Not available w/ pilot)</p> <p>W No approvals; Type 4, 4X IP66/68</p>	<p>G Standard 90° Green OPEN, Red CLOSED</p> <p>R Standard 90° Green CLOSED, Red OPEN</p> <p>B 90° Black OPEN, Yellow CLOSED</p> <p>Y 90° Yellow OPEN, Black CLOSED</p> <p>1 3 way, 90° L Port</p> <p>3 3 way, 90° T Port</p> <p>5 3 way, 90° T Port</p> <p>7 3 way, 180° T Port 3 position</p> <p>9 3 way, 180° T Port 3 position</p> <p>For complete information on certification options, go to www.topworx.com and download the applicable product certificate.</p>	<p>S 1/4" DD 316 stainless steel</p> <p>N NAMUR 316 stainless steel</p>	<p>DXP/DXS (Metal Conduit Entries) E (2) 3/4" NPT</p> <p>4 (2) 3/4" NPT (2) 1/2" NPT</p> <p>M (2) M20</p> <p>3 (4) M20</p> <p>6 (4) 3/4" NPT</p> <p>DXR P (2) 1/2" NPT</p> <p>E (2) 3/4" NPT</p> <p>M (2) M20</p> <p>See next column</p>
Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries


Ordering Guide
Fill in the boxes to create your 'ordering number.'

O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
B Buna-N S Silicone NOTE: For Temperatures below -40°C, Silicone o-rings are recommended	Blank No pilot device(s) 1 (1) 24 Vdc pilot, fail open/closed 0.5 W (non- I.S.) 0.5W (I.S.) 2 (2) 24 Vdc pilots, fail last position 0.5W (non-I.S.) 0.5W (I.S.) 4 (1) 220 Vac pilot, 2W, fail open/closed 5 (2) 220 Vac pilots, 2W, fail last position 7 (1) 110 Vac pilot, 1.1W, fail open/closed 8 (2) 110 Vac pilots, 1.1W, fail last position P (1) piezo pilot, fail open/closed (FF only) R (2) piezo pilots, fail last position (FF only)	Blank No Spool Valve A Aluminum Hard coat anodized (IP65) 6 316 Stainless steel (IP65)	Blank No Spool Valve 2 .86 Cv (1/4" NPT Ports) 3 3.7 Cv (1/2" NPT Ports) (For manual override consult factory) (Spool Valve A) (Spool Valve 6)	Blank No override 1 Single Pushbutton Momentary/Latching 2 Dual Pushbutton Momentary/Latching T Partial stroke test button with lockable cover (Sensor ES only) (Not avail w/ Area Class C) (DXP/S - Conduit Entries 4 or 3 only. DXR - consult factory)	Blank No Regional Cert B InMetro (Area Class 0,1 and C only) N NEPSI F FISCO (Bus/Sensor must be FF; Area Class must be 0) K KOSHA (DXP/S only) (Area class 1 or C) R EAC (DXP/S only)(O-Rings must be B or S, B= Gas Approved;S = Gas/Dust Approved) A ANZEx Ex d IIC, Ex d IIB+H2 (DXP/S only) P PESO (India) (Gas approval only)
O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs

Accessories

Description	Part Number	List Price
Pneumatic Accessories		
Flow Control, 1/8" NPT (1 per kit)	AL-M20	
Flow Control, 1/4" NPT (1 per kit)	AL-M21	
Flow Control, 1/2" NPT (1 per kit)	AL-M22	
Exhaust Protectors, 1/4" NPT (2 per kit)	AL-M32	
Exhaust Protectors, 1/2" NPT (2 per kit)	AL-M33	
Slip-Lok, 1/2" x 1/2"	AV-SLPP	
Slip-Lok, 3/4" x 1/2"	AV-SLEP	
Miscellaneous		
TopWorx Demo Case (Includes Valvetop DXP, TXP, TVL, cutaway GO Switch models 20, 35, & 70, and accessories)	ATK2	Net
ESD Demo Case (Includes working DXP-ES1GN4B1A2T mounted to rack and pinion actuator with control box)	ATK-ESD	Net

TopWorx™ T-Series TXP, TXS Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
TXP Tropicalized Aluminum TXS 316 Stainless Steel	Bus Network AS AS-Interface (Area class cannot be 0) PB Profibus DP (Area class must be 1, C or W) Mechanical Switches (Area class cannot be 2) M2 (2) Mech SPDT No Adder M4 (4) Mech SPDT K2 (2) Mech SPDT w/ gold contacts T2 (2) Mech DPDT (not available with pilot) Proximity Switches R2 (2) SPDT 200mA max R4 (4) SPDT 200mA max *P2 (2) SPDT 3A max *P4 (4) SPDT 3A max * Not recommended with Area Class 0 GO Switches L2 (2) GO™ Switches SPDT hermetically sealed (TXP/TXS w/o pilot valve only) G2 (2) GO™ Switches SPDT hermetically sealed 3A/24VDC; 4A/120VAC G4 (4) GO™ Switches SPDT hermetically sealed 3A/24VDC; 4A/120VAC Q2 (2) GO™ Switches SPDT hermetically sealed 1A/24VAC Q4 (4) GO™ Switches SPDT hermetically sealed 1A/24VDC Inductive Sensors E2 (2) p+f NJ2-V3-N inductive NAMUR Analog Output 0X 4-20 mA Transmitter with no switches Examples: AS = AS-i with "R" type reed switches	0 Intrinsically safe ATEX/IECEX Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/67 C Flame Proof ATEX/IECEX II2GD Ex d IIC Ex tb IIIC, IP66/67 (w/o pilot valve) 1 Explosion proof CI I Div 1 Grps C,D CI II Div 1 Grps E-G (NEC aprovals w/o pilot valve) ATEX/IECEX Zone 1 II2GD Ex d IIB Ex tb IIIC, IP66/67 2 Non-incendive CI I Div 2 Grps A-D CI II Div 2 Grps F&G (NEC aprovals w/o pilot valve) ATEX II3GD (Not available with all sensing options) Ex nA nC IIC, IP66/67 Ex tb IIIC G General Purpose Type 4X W No approvals Type 4, 4x IP66/68 For complete information on certification options, go to www.topworx.com and download the applicable product certificate.	G Standard 90° Green OPEN, Red CLOSED R Standard 90° Green CLOSED, Red OPEN B 90° Black OPEN, Yellow CLOSED F Flat-top with skirt indicator (TXP & TXS only) (Indicator not provided with "L" Shaft option) Y 90° Yellow OPEN, Black CLOSED J 3 Way T Port, Green/Red K 3 Way L Port, Green/Red	N NAMUR 304 stainless steel L 1" Extended Linear Shaft <div style="text-align: center;"> See next column  </div>
Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft

Ordering Guide

Fill in the boxes to create your 'ordering number.'

T-Series Mounting Kits (All hardware included)

Description	Part Number	List Price	Description	Part Number	List Price
Mounting Kits for TXP			Stainless Steel Mounting Kits for TXS		
Mounting Kit for 20 x 80	AV-TA09		Mounting Kit for 20 x 80	AV-TS09	
Mounting Kit for 20 x 80 (flattop only)	AV-TA10		Mounting Kit for 20 x 80 (flattop only)	AV-TS10	
Mounting Kit for 30 x 80	AV-TA11		Mounting Kit for 30 x 80	AV-TS11	
Mounting Kit for 30 x 80 (flattop only)	AV-TA12		Mounting Kit for 30 x 80 (flattop only)	AV-TS12	
Mounting Kit for 30 x 130	AV-TA13		Mounting Kit for 30 x 130	AV-TS13	
Mounting Kit for 30 x 130 (flattop only)	AV-TA14		Mounting Kit for 30 x 130 (flattop only)	AV-TS14	
Mounting Kit for 50 x 130	AV-TA15		Mounting Kit for 50 x 130	AV-TS15	
Mounting Kit for 50 x 130 (flattop only)	AV-TA16		Mounting Kit for 50 x 130 (TXS flattop only)	AV-TS16	
Mounting Kit for existing standard shaft brackets	AV-PL001-1				

Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
TXP/TXS P (2) 1/2" NPT M (2) M20 E (2) 3/4" NPT (Not available with pilot valve) 3 (4) M20 (Not available with pilot valve) 4 (2) 3/4" NPT (2) 1/2" NPT (Not available with pilot valve)	M Silicone	Blank No pilot device(s) 1 (1) 24Vdc pilot, fail open/closed 1W (non I.S) 0.5W (I.S) 7 (1) 110Vac pilot, 3VA, fail open/closed 4 (1) 220Vac pilot, 3VA fail open/closed	Blank No spool valve A Aluminum Hard coat anodized 6 316 Stainless steel	Blank No spool valve 1 1.0 Cv (1/4" NPT Ports) 8 1.0 Cv (1/4" BSP Ports)	Blank No override 1 Single Pushbutton Momentary/Latching	Blank No Regional Cert N NEPSI R EAC B InMetro (Area Class 0,1 and C only) P PESO(Gas approval only)
Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs

Conduit Plugs

Part #	Size	Material	Approval Cert.	List Price
PS-00177-1	3/4" NPT	Aluminium	UL/CSA	
PS-00177-2	M20	Aluminium	00ATEX1094	
PS-00177-3	1/4" NPT	316 SST	None	
PS-00177-4	3/4" NPT	Aluminium	00ATEX1094	
PS-00177-5	1/2" NPT	SST	00ATEX1094	
PS-00177-6	3/4" NPT	SST	00ATEX1094	
PS-00177-7	M20	SST	00ATEX1094	

TopWorx™ T-Series TVF, TVL, TVH & TVA

Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
TVF Tropicalized Aluminum base with clear resin lid TVL Tropicalized Aluminum base and Lid TVH 316 Stainless Steel base and lid TVA Engineered Resin (Area Class must be W or 0), (Only available with Bus/Sensors AS, AM (with or w/o pilot valve) M, K, T, R, P or E (w/o pilot valve))	Bus Network (area class cannot be 0) AS AS-Interface DN DeviceNet PB Profibus DP GO™ Switches G2 (2) GO™ Switches SPDT hermetically sealed 3A/24VDC; 4A/120VAC G4 (4) GO™ Switches SPDT hermetically sealed 3A/24VDC; 4A/120VAC Q2 (2) GO™ Switches SPDT hermetically sealed 1A/24VAC Q4 (4) GO™ Switches SPDT hermetically sealed 1A/24VDC Mechanical Switches (Area class cannot be 2) M2 (2) Mech SPDT M4 (4) Mech SPDT K2 (2) Mech SPDT w/ gold contacts T2 (2) Mech DPDT Proximity Switches R2 (2) SPDT 200mA max R4 (4) SPDT 200mA max *P2 (2) SPDT 3A max (*Not recommended with area class 0) LED Indication Green - OPEN Red - CLOSED *order with clear resin lid (TVF) RS (2) SPDT Prox Switches 24V/3W max QS (2) SPDT GO Switches 120Vac; 24Vdc/.25A *KS (2) SPDT Mech Switches 120Vac; 24Vdc/.25A (*Not available with Area Class 2) Analog Output (Available with M, K, T, E)(Not available w/ pilot/spool valve) *X 4-20 mA Transmitter (*Not available with "2" or "G" area class) Inductive Sensors E2 (2) p+f NJ2-V3-N inductive NAMUR 12 (2) Ind prox PNP N/O (Area class can only be "W") Examples: 0X 4-20 mA Transmitter with no switches MX 4-20 mA Transmitter with mechanical switches AS AS-i with "R" type reed switches	0 Intrinsically safe ATEX/IECEx Zone 1 II2GD Ex ia IIC Ex tb IIIC, IP66/68 (Dust groups TVL/TVH only) CI I Div 1 Grps-A-D; CI II Div 1 Grps E-G (TVA/ATEX/IECEx Only) 2 Non-incendive ATEX/IECEx Zone 2 II3GD Ex nA nC IIC Ex tc IIIC, IP66/68 CI I Div 2 Grps A-D; CI I Div 2 Grps F & G W No approvals, Type 4, 4X IP66/68 G General Purpose Type 4X (Not available on TVA) TVF, TVL & TVH 10pt. terminal strip w/pilots 12pt. terminal strip w/o pilots TVA 8pt. terminal strip w/o pilots	G Standard 90° Green OPEN, Red CLOSED R Standard 90° Green CLOSED, Red OPEN B 90° Black OPEN, Yellow CLOSED F Flat-top with skirt indicator (TVL & TVH only) (Indicator not provided with "L" Shaft option) Y 90° Yellow OPEN, Black CLOSED T Green THRU, Red DIVERT K 3 Way L Port, Green/Red	N NAMUR 304 stainless steel L 1" Extended Linear Shaft (TVL/TVH only)

See next column



Ordering Guide

Fill in the boxes to create your 'ordering number.'




Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
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T-Series Mounting Kits (All hardware included)

Description	Part Number	List Price	Description	Part Number	List Price
Mounting Kits for TVF/TVL			Stainless Steel Mounting Kits for TVH		
Mounting Kit for 20 x 80	AV-TA01		Mounting Kit for 20 x 80	AV-TS01	
Mounting Kit for 20 x 80 (flattop only)	AV-TA02		Mounting Kit for 20 x 80 (flattop only)	AV-TS02	
Mounting Kit for 30 x 80	AV-TA03		Mounting Kit for 30 x 80	AV-TS03	
Mounting Kit for 30 x 80 (flattop only)	AV-TA04		Mounting Kit for 30 x 80 (flattop only)	AV-TS04	
Mounting Kit for 30 x 130	AV-TA05		Mounting Kit for 30 x 130	AV-TS05	
Mounting Kit for 30 x 130 (flattop only)	AV-TA06		Mounting Kit for 30 x 130 (flattop only)	AV-TS06	
Mounting Kit for 50 x 130	AV-TA07		Mounting Kit for 50 x 130	AV-TS07	
Mounting Kit for 50 x 130 (flattop only)	AV-TA08		Mounting Kit for 50 x 130 (flattop only)	AV-TS08	
Mounting Kit for existing standard shaft brackets	AV-PL001-1				
Resin Mounting Kits for TVA					
Mounting Kit for 20 x 80	AL-TR01				
Mounting Kit for 30 x 80	AL-TR04				
Mounting Kit for 30 x 130	AL-TR07				
Mounting Kit for 50 x 130	AL-TR09				

Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
TVF/TVL/TVH P (2) 1/2" NPT M (2) M20 E (2) 3/4" NPT 1 (2) M25 TVA A (2) 1/2"NPT Resin C (2) M20 Resin	M Silicone	Blank No pilot device(s) 1 (1) 24Vdc pilot, fail open/closed 1W (non I.S.) 0.5W (I.S.) 2 (2) 24Vdc pilots fail last position 1W (non-I.S.) (Not available in TVA) 0.5W (I.S.) 4 (1) 220Vac pilot, 3VA fail open/closed (Not available in TVA) 5 (2) 220Vac pilots, 3VA fail last position (Not available in TVA) 7 (1) 110Vac pilot, 3VA, fail open/closed (Not available in TVA) 8 (2) 110Vac pilots, 3VA fail last position (Not available in TVA)	Blank No spool valve A Aluminum Hard coat anodized 6 316 Stainless steel	Blank No spool valve 1 1.0 Cv (1/4" NPT Ports) 8 1.0 Cv (1/4" BSP Ports)	Blank No override 1 Single Pushbutton Momentary/Latching 2 Dual Pushbutton Momentary Latching	N NEPSI R EAC (Not available in TVA) B InMetro (Area Class "0"only) P Peso (Gas approval only)
Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs

TopWorx™ K-Series K1 Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
K1P Aluminum K1S Stainless Steel	GO Switches L2 (2) GO™ Switches SPDT hermetically sealed Mechanical Switches *M2 (2) Mech SPDT K2 (2) Mech SPDT w/ gold contacts *Not available with Area Class "0" Inductive Sensors E2 (2) p+f NJ2-V3-N J2 (2) P+F NJ2-11-SN-G *42 (2) P+F NBB2-V3-E2 *52 (2) P+F NBB3-V3-Z4 *Not available with Area Class "0" Proximity Switches R2 (2) SPDT 1 Amp max *P2 (2) SPDT 3 Amp max *Not available with Area Class "0" Analog Output 0X 4-20 mA Transmitter with no switches 0H 4-20 mA Transmitter with no switches P+F Options N002 P+F model NJ4-12GM-N N003 P+F model SJ3.5-N N004 P+F model SJ3.5-SN N005 P+F NCB2-12GM35-N0 N006 P+F NJ2-12GK-SN N007 P+F SJ3.5-S1N N009 P+F NJ4-12GK-SN N010 P+F NJ5-11-N-G N011 P+F NJ2-11-N-G N015 P+F NJ2-12GM-N N017 P+F NJ2-12GK-N N020 P+F NCB2-12GM35-N0 N021 P+F SJ3.5-N-BU N023 P+F NJ2-11-SN-G N026 P+F NJ4-12GK-N N028 P+F NCB2-V3-N0	0 Intrinsically safe ATEX/IECEX Zone 1 Ex ia IIC Ex tb IIIC, IP66/67 1 Explosion proof Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F, G; Class III; Type 4, 4X, 6 and 6P; IP66/67 C Flameproof ATEX/IECEX Zone 1 Ex dB IIC T6/T4, Ex tb IIC IP66/67 Z NA Zones Class I, Zone 1, AEx/Ex d IIC T6/T4 Zone 21, AEx tb/TD, IIIC IP66/67, Type 4, 4X, 6, 6P W No approvals Type 4, 4X IP66/67	G Standard 90° Green OPEN, Red CLOSED R Standard 90° Green CLOSED, Red OPEN B 90° Black OPEN, Yellow CLOSED F Flat-top with Y 90° Yellow OPEN, Black CLOSED 1 3 way, 90° L Port  3 3 way, 90° T Port  5 3 way, 90° T Port  S Stainless Steel Flag Indicator	N NAMUR 316 stainless steel B Linear : 18.5 Min, 50.0 Max C Linear : 18.5 Min, 85.0 Max D Linear : 18.5 Min, 110.0 Max L Linear : 100.0 Min, 224.0 Max Linear options only available with "F" Flat-top "Visual Display"

See next column






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Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
P (2) 1/2" NPT M (2) M20	S Silicone	Not Available	Not Available	Not Available	Not Available	B InMetro (Area Class "0"only) D IP68, 30m S IP68, 150m TopWorx recommends metric threads for submersible product Submersible cabling available. Contact TopWorx for ordering information Option "S" only available with "F" or "S" indicator Example: K1*-***S***0000S or K1*-***F***0000S
Conduit Entries —	O-Rings —	Pilot <u>0</u>	Spool Valve <u>0</u>	Valve Cv <u>0</u>	Manual Override <u>0</u>	Regional Certs —

TopWorx™ K-Series K2

Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
K2P Aluminum K2S Stainless Steel	GO Switches L2 (2) GO™ Switches SPDT hermetically sealed Z2 (2) GO™ Switches DPDT hermetically sealed Mechanical Switches *M2 (2) Mech SPDT *M4 (4) Mech SPDT K2 (2) Mech SPDT w/ gold contacts K4 (4) Mech SPDT w/ gold contacts *T2 (2) Mech DPDT U2 (2) Mech DPDT w/gold contacts *Not available with Area Class "0" Inductive Sensors E2 (2) p+f NJ2-V3-N E4 (4) p+f NJ2-V3-N inductive NAMUR *42 (2) P+F NBB2-V3-E2 *44 (4) P+F NBB2-V3-E2 *52 (2) P+F NBB3-V3-Z4 *54 (2) P+F NBB3-V3-Z4 J2 (2) P+F NJ2-11-SN *Not available with Area Class "0" Proximity Switches R2 (2) SPDT 1Amp max R4 (4) SPDT 1Amp max *P2 (2) SPDT 3Amp max *P4 (4) SPDT 3Amp max *Not available with Area Class "0" Analog Output (Available with 2-switches options with L, M, K, E, N) _X 4-20mA transmitter _H 4-20mA HART transmitter P+F Options N002 P+F model NJ4-12GM-N N003 P+F model SJ3.5-N N004 P+F model SJ3.5-SN N005 P+F NCB2-12GM35-N0 N006 P+F NJ2-12GK-SN N007 P+F SJ3.5-S1N N008 P+F NJ5-18GK-SN N009 P+F NJ4-12GK-SN N010 P+F NJ5-11-N-G N011 P+F NJ2-11-N-G N013 P+F NJ5-18GK-N N015 P+F NJ2-12GM-N N016 P+F NJ5-18GM-N N017 P+F NJ2-12GK-NN020 N019 P+F NJ2-12GM40-E2 N020 P+F NCB2-12GM35-N0 N021 P+F SJ3.5-N-BU N022 P+F NBN4-12GM40-Z0 N023 P+F NJ2-11-SN-G N025 P+F NCB2-12GM40-N0 N026 P+F NJ4-12GK-N N028 P+F NCB2-V3-N0	0 Intrinsically safe ATEX/IECEX Zone 1 Ex ia IIC Ex tb IIIC, IP66/67 1 Explosion proof Class I, Div 1, Groups B, C, D; Class II, Div 1, Groups E, F, G; Class III; Type 4, 4X, 6 and 6P; IP66/67 C Flameproof ATEX/IECEX Zone 1 Ex dB IIC T6/T4, Ex tb IIC IP66/67 Z NA Zone Class I, Zone 1, AEx/EX d IIC T6/T4 Zone 21, AEx tb/td, IIIC IP66/67, Type 4, 4X, 6, 6P W No approvals Type 4, 4X IP66/67	G Standard 90° Green OPEN, Red CLOSED R Standard 90° Green CLOSED, Red OPEN B 90° Black OPEN, Yellow CLOSED F Flat-top with no indicator Y 90° Yellow OPEN, Black CLOSED 1 3 way, 90° L Port  3 3 way, 90° T Port  5 3 way, 90° T Port  S Stainless Steel Flag Indicator	N NAMUR 316 stainless steel B Linear : 18.5 Min, 50.0 Max C Linear : 18.5 Min, 85.0 Max D Linear : 18.5 Min, 110.0 Max L Linear : 100.0 Min, 224.0 Max Linear options only available with "F" Flat-top "Visual Display"

See next column






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 your 'ordering number.'

Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
P (2) 1/2" NPT M (2) M20 1 (2) M25 3 (4) M20 5 (4) M25 E (2) 3/4 NPT 6 (4) 3/4 NPT	S Silicone	Not Available	Not Available	Not Available	Not Available	B InMetro (Area Class "0"only) D IP68, 30m S IP68, 150m 5 400°C/ Continuous Option 5 limited to K2_-M2WFN_S00005 TopWorx recommends metric threads for submersible product Submersible cabling available. Contact TopWorx for ordering information Option "S" only available with "F" or "S" indicator Example: K1*-***S***0000S or K1*-***F***0000S
Conduit Entries —	O-Rings —	Pilot <u>0</u>	Spool Valve <u>0</u>	Valve Cv <u>0</u>	Manual Override <u>0</u>	Regional Certs —

TopWorx™ K-Series K5L & K7L

Consult factory for options not shown below.

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft
K5L Aluminum K7L Aluminum K5L only available with M, K, R, P, 4, 5, E, N028 & (2) switches	GO Switches L2 (2) GO™ Switches SPDT hermetically sealed Mechanical Switches *M2 (2) Mech SPDT *M4 (4) Mech SPDT K2 (2) Mech SPDT w/gold contacts K4 (4) Mech SPDT w/gold contacts *T2 (2) Mech DPDT U2 (2) Mech DPDT w/gold contacts *Not available with Area Class "G" or "D" Proximity Switches R2 (2) SPDT 1Amp max R4 (4) SPDT 1Amp max *P2 (2) SPDT 3Amp max *P4 (4) SPDT 3Amp max *Not available with Area Class "G" or "D" Inductive Sensors E2 (2) p+f NJ2-V3-N inductive NAMUR E4 (4) p+f NJ2-V3-N inductive NAMUR J2 (2) P+F NJ2-11-SN *42 (2) P+F NBB2-V3-E2 *44 (4) P+F NBB2-V3-E2 *52 (2) P+F NBB3-V3-Z4 *54 (4) P+F NBB3-V3-Z4 *Not available with Area Class "G" or "D" Analog Output (Available with 2-switches options with M, K, E, N) _X 4-20mA transmitter _H 4-20mA HART transmitter P+F Options N002 P+F NJ4-12GM-N N003 P+F SJ3.5-N N004 P+F SJ3.5-SN N005 P+F NCN4-12GM35-N0 N006 P+F NJ2-12GK-SN N007 P+F SJ3.5-S1N N009 P+F NJ4-12GK-SN N010 P+F NJ5-11-N-G N011 P+F NJ2-11-N-G N013 P+F NJ5-18GK-N N015 P+F NJ2-12GM-N N016 P+F NJ5-18GM-N N017 P+F NJ2-12GK-N N020 P+F NCB2-12GM35-N0 N021 P+F SJ3.5-N-BU N023 P+F NJ2-11-SN-G N026 P+F NJ4-12GK-N N028 P+F NCB2-V3-N0	G Intrinsically Safe Gas Groups Only ATEX/IECEX Zone 1 II2G, Ex ia IIC IP66/67 D Intrinsically Safe Gas and Dust Groups ATEX/IECEX Zone 1/21 II2GD, Ex ia IIC; Ex tb IIIC IP66/67 W No approvals, IP66/67	G Standard 90° Green OPEN, Red CLOSED R Standard 90° Green CLOSED, Red OPEN B 90° Black OPEN, Yellow CLOSED F Flat-top with no indicator Y 90° Yellow OPEN, Black CLOSED 1 3 way, 90° L Port  3 3 way, 90° T Port  5 3 way, 90° T Port 	N NAMUR 316 stainless steel B Linear : 18.5 Min, 50.0 Max C Linear : 18.5 Min, 85.0 Max D Linear : 18.5 Min, 110.0 Max L Linear : 100.0 Min, 224.0 Max Linear options only available with "F" Flat-top "Visual Display"
Ordering Guide Fill in the boxes to create your 'ordering number.'				
Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft

See next column



Conduit Entries	O-Rings	Pilot	Spool Valve	Valve Cv	Manual Override	Regional Certs
<div>P (2) 1/2" NPT</div> <div>M (2) M20</div>	<div>M Silicone</div>	<div>Not Available</div>	<div>Not Available</div>	<div>Not Available</div>	<div>Not Available</div>	<div>*Option 1-4 limited to K7L-M2WFN_M0000_</div> <div>1 250°C/3 hours \$50</div> <div>2 300°C/3 hours \$100</div> <div>3 350°C/3 hours \$200</div> <div>4 400°C/3 hours \$350</div>
<div>Conduit Entries</div> <div>—</div>	<div>O-Rings</div> <div>—</div>	<div>Pilot</div> <div>0</div>	<div>Spool Valve</div> <div>0</div>	<div>Valve Cv</div> <div>0</div>	<div>Manual Override</div> <div>0</div>	<div>Regional Certs</div> <div>—</div>

GO™ Switch Models 11 and 21

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs																																											
11 1 1/2" square x 4 9/16" overall. Add 1/2" for bottom conduit outlet	1 SPDT (Form C) 3 SPDT (Form C) Latching (maintained contact) (Outlet position must be 2, 4 or 5)	1 Standard sensing - approx. 3/8" side sensing 2 Extended sensing - approx. 9/16" side sensing (Contact Form must be 1 or 3) (Model 11 only) 7 Precision sensing - approx. 1/4" side sensing (minimal differential)	1 Behind sensing area 2 Left of sensing area 3 Right of sensing area 4 Same side as sensing area 5 Bottom of enclosure	1 Brass - coated with flat black lacquer. 2 Stainless steel** 3 Brass - corrosion resistant coating (polyurethane) 4 Stainless steel - corrosion resistant coating (polyurethane)** **Stainless steel switches are recommended for wet or harsh environments.	0 CSA/FM CI I, Div 2, Grps A-D; CI II, Div 1&2, Grps E-G; CI III (Wiring must be 00) (Lead seal req'd within 18") 2 High temperature to 350°F (176°C) (Contact form must be 1 or 3; sensing is 1 and enclosure is 2 or 4) (Wiring must be F) (Model 11 only) 3 UL CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (Enclosure must be 2 or 4) (Wiring must be A, B, or F) (Lead seal req'd within 18") (Does not incl. a ground wire) 4 CSA/FM CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (Enclosure must be 2 or 4) (Wiring must be A, B, or F) (Lead seal req'd within 18") 6 CSA/FM CI I, Div 2, Grps A-D; CI II, Div 2, Grps F-G; CI III (Wiring must be A, B, or F) (Lead seal req'd within 18") 7 cUL certified General Purpose (If a QDC is required, Connector must be DCD, 4DD, or 4DE) 8 UL listed General Purpose (Does not incl. a ground wire) F ATEX/IECEX Zone 0 Ex ia IIC T6 Ga, Ex ia IIIC T85°C Da, (-40°C≤Ta≤50°C) (Wiring must be S or 00/00M) G ATEX/IECEX Zone 0 Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da, (-40°C≤Ta≤100°C) (Wiring must be S or 00/00M) H ATEX/IECEX Zone 0 Ex ia IIC T3 Ga, Ex ia IIIC T 200°C Da, (-40°C≤Ta≤150°C) (Wiring must be S)	Terminal Block 00 1/2" - 14 NPT 00M M20 Lead Wires - 18 Gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 16 Gauge, SO rubber insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250' Quick Disconnect Mini Connector* (Area Classification must be 7 or 8) DCA 3 pin DCD 4 pin Quick Disconnect M12x1 (Area Classification must be 7 or 8) DMD 4 pin SubSea Connector* (Area Classification must be 7 or 8; Enclosure must be 2 or 4) 3DD 3 pin 4DD 4 pin 3DE 3 pin 90° 4DE 4 pin 90° Hi-Temp Lead Wires 18 Gauge, Teflon™ insulated F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250' Cable - 18 Gauge Blue Silicone (Area Classification must be F, G, or H) S2 3' S3 6' S4 12' S5 25' S6 50' S7 100' S8 250' * See pg.29 for cordsets	R EAC (Area Classification F, G, & H only) Blank																																											
<div>Extended Sensing Range with External Target Magnets</div> <table><thead><tr><th>Switch Type</th><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td rowspan="4">10 Series SPDT w/ Standard Sensing</td><td>AMP3</td><td>1"</td><td>1/2"</td></tr><tr><td>AMS4</td><td>1 1/4"</td><td>11/16"</td></tr><tr><td>AMC5</td><td>3 3/8"</td><td>1 1/2"</td></tr><tr><td>AMF6</td><td>2 7/16"</td><td>1 1/2"</td></tr><tr><td rowspan="4">10 Series SPDT w/ Extended Sensing</td><td>AMP3</td><td>1 1/4"</td><td>5/8"</td></tr><tr><td>AMS4</td><td>1 9/16"</td><td>11/16"</td></tr><tr><td>AMC5</td><td>3 3/4"</td><td>1 1/2"</td></tr><tr><td>AMF6</td><td>3"</td><td>1 11/16"</td></tr><tr><td rowspan="4">20 Series SPDT w/ Standard Sensing</td><td>AMP3</td><td>1"</td><td>3/4"</td></tr><tr><td>AMS4</td><td>1 3/8"</td><td>7/8"</td></tr><tr><td>AMC5</td><td>3 3/8"</td><td>1 3/4"</td></tr><tr><td>AMF6</td><td>2 7/16"</td><td>1 15/16"</td></tr></tbody></table>								Switch Type	Magnet	Sensing	Differential	10 Series SPDT w/ Standard Sensing	AMP3	1"	1/2"	AMS4	1 1/4"	11/16"	AMC5	3 3/8"	1 1/2"	AMF6	2 7/16"	1 1/2"	10 Series SPDT w/ Extended Sensing	AMP3	1 1/4"	5/8"	AMS4	1 9/16"	11/16"	AMC5	3 3/4"	1 1/2"	AMF6	3"	1 11/16"	20 Series SPDT w/ Standard Sensing	AMP3	1"	3/4"	AMS4	1 3/8"	7/8"	AMC5	3 3/8"	1 3/4"	AMF6	2 7/16"	1 15/16"
Switch Type	Magnet	Sensing	Differential																																															
10 Series SPDT w/ Standard Sensing	AMP3	1"	1/2"																																															
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Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Approvals	Wiring Options	Regional Certs																																											

Ordering Guide
Fill in the boxes to create your ordering number.*

Ordering Guide

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GO™ Switch Models 12 & 22

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
12 1 1/2" square x 4 9/16" overall.	1 SPDT (Form C)	1 Standard sensing - approx. 3/8" side sensing	1 Behind sensing area	2 Stainless steel	9 ATEX/IECEx Zone 1 Ex de IIC T6 Gb, Ex tb IIIC T85°C Db, (-40°C ≤ Ta ≤ 60°C) IP66/68	Terminal Block 00 1/2" - 14 NPT 00M M20	P Peso K Kosha R EAC Blank
22 1 1/2" square x 3 3/16" overall.	3 SPDT (Form C) Latching (maintained contact) (Outlet position must be 2, 4 or 5)	2 Extended sensing - approx. 9/16" side sensing (Contact Form must be 1 or 3) (Model 12) 7 Precision sensing - approx. 1/4" side sensing (minimal differential)	2 Left of sensing area 3 Right of sensing area 4 Same side as sensing area 5 Bottom of enclosure				
Model — —	Contact Form —	Sensing Range —	Outlet Position —	Enclosure Material 2	Area Classification 9	Wiring Options — —	Regional Certs —

GO™ Switch Model 31

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs															
31 1" square x 3 1/4" overall	1 SPDT (Form C)	7 Approx. 1/4" end sensing	5 1/2"-14 NPT conduit hub on bottom of enclosure	2 Stainless steel 4 Stainless steel - corrosion resistant coating (polyurethane)	3 UL CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18") (Does not incl. a ground wire) 4 cULus CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18") 5 UL CI I, Div 2, Grps A-D; CI II, Div 2, Grps E-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18") (Does not incl. a ground wire) 6 cULus CI I, Div 2, Grps A-D; CI II, Div 2, Grps E-G; (Wiring A, B, or F) (Lead seal req'd within 18") 7 cULus listed General Purpose (If a QDC is required. Connectors must be DCD or DMD) 8 UL listed General Purpose (Does not incl. a ground wire)	Lead Wires - 18 Gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 18 Gauge, PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250' Quick Disconnect Mini Connector* (Area Classification must be 7 or 8) DCA 3 pin DCD 4 pin Quick Disconnect M12x1 (Area Classification must be 7 or 8) DMD 4 pin Hi-Temp Leads Teflon™ insulated F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250' *See pg.29 for cordsets	Currently not available															
<div>Extended Sensing Range with External Target Magnets</div> <table><thead><tr><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td>AMP3</td><td>3/4"</td><td>1 1/4"</td></tr><tr><td>AMS4</td><td>1"</td><td>1 1/2"</td></tr><tr><td>AMC5</td><td>2 5/8"</td><td>3 1/2"</td></tr><tr><td>AMF6</td><td>1 5/8"</td><td>4 1/4"</td></tr></tbody></table>								Magnet	Sensing	Differential	AMP3	3/4"	1 1/4"	AMS4	1"	1 1/2"	AMC5	2 5/8"	3 1/2"	AMF6	1 5/8"	4 1/4"
Magnet	Sensing	Differential																				
AMP3	3/4"	1 1/4"																				
AMS4	1"	1 1/2"																				
AMC5	2 5/8"	3 1/2"																				
AMF6	1 5/8"	4 1/4"																				
Model 31	Contact Form 1	Sensing Range 7	Outlet Position 5	Enclosure Material —	Area Classification —	Wiring Options — — —	Regional Certs —															

Ordering Guide

Fill in the boxes to create your ordering number.

Ordering Guide

Fill in the boxes to create your ordering number.

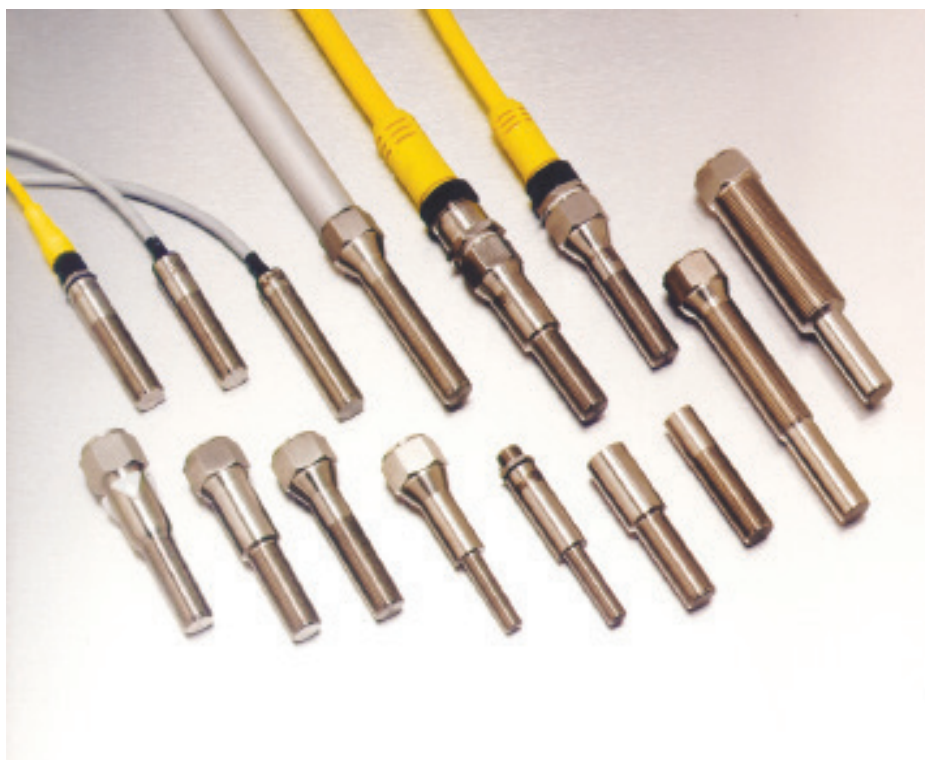
GO™ Switch Model 35

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs															
35 3/4" square x 2 1/2" overall	1 SPDT Hermetic seal (Form C)	3 Approx. 0.100" end sensing	3 No conduit hub	1 Copper - coated with flat black lacquer	7 cULus listed General Purpose 8 UL listed General Purpose (Does not incl. a ground wire)	Lead Wires - 18 Gauge PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 18 Gauge PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'	Currently not available															
<div>Extended Sensing Range with External Target Magnets</div> <table><thead><tr><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td>AMP3</td><td>1 1/8"</td><td>1"</td></tr><tr><td>AMS4</td><td>1 1/2"</td><td>1 3/4"</td></tr><tr><td>AMC5</td><td>3 5/8"</td><td>1 3/4"</td></tr><tr><td>AMF6</td><td>2 9/16"</td><td>2 5/8"</td></tr></tbody></table>								Magnet	Sensing	Differential	AMP3	1 1/8"	1"	AMS4	1 1/2"	1 3/4"	AMC5	3 5/8"	1 3/4"	AMF6	2 9/16"	2 5/8"
Magnet	Sensing	Differential																				
AMP3	1 1/8"	1"																				
AMS4	1 1/2"	1 3/4"																				
AMC5	3 5/8"	1 3/4"																				
AMF6	2 9/16"	2 5/8"																				
Model 35	Contact Form 1	Sensing Range 3	Outlet Position 3	Enclosure Material 1	Area Classification —	Wiring Options — — — —	Regional Certs —															

GO™ Switch Model 52M

Model	Sensing Range	Enclosure Material	Area Classification	Indication	Wiring Options
52M M12 - 1 Mounting Thread	5 1.5mm (0.060")	6 316L Stainless Steel	1 CE	0 No LED	Cable - 22 Gauge Oil and UV resistant PVC Insulated Jacket B 2m Quick Disconnect M12x1 D 4pin
Model 52M	Contact Form 5	Enclosure Material 6	Area Classification 1	Outlet Position 0	Wiring Options —

TopWorx™ offers custom body tubes for many different types of applications and industries. Consult the factory for a quote.



GO™ Switch Model 81

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
81 1 1/2" square x 4 7/8" over all. Subtract 1/2" from length for side outlet	1 SPDT (Form C) 2 DPDT (Form CC)	0 Approx. 1/4" end sensing	1 Side outlet 5 Bottom of enclosure	1 Brass - coated with flat black lacquer 2 Stainless steel** 3 Brass - corrosion resistant coating (polyurethane) 4 Stainless steel** - corrosion resistant coating (polyurethane) <			

GO™ Switch Models 72,74,76

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs												
72	3/8" - 24 mounting thread No conduit entry	1 SPDT	3 Standard sensing .100" end sensing (Rated 2,000psi) (Model 74 or 76)	2 Side entry with (Approval must be 2 or 8 and Wiring must be F)	6 316L stainless steel	2 HiTemp to 400°F (Wiring must be F)	Lead Wires - 18 Gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250'	Currently not available											
72M	M12 - 1 mounting thread No conduit entry	4 .072" end sensing (Rated 5,000psi) (Model 74 or 76)	5 Bottom of enclosure	8 316L stainless steel w/ Xylan coating	7 cULus General Purpose (If a QDC is required. Connector must be DBD or DMD)	8 UL General Purpose (Does not incl. a ground wire)	Cable - 18 Gauge, PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'												
74	5/8" - 18 mounting thread 13/16" No conduit entry	5 .060" end sensing (Rated 10,000psi) (Model 74 or 76)			9 ATEX/IECEX Zone 1 Ex db IIC T6/T4/T3 Gb, Ex tb IIIC T85°C/T135°C/T200°C Db, IP66 (-55°C ≤ Ta ≤ 50°C/100°C/100°C) (Wiring must be R)	Water Resistant Squeeze Connector 18 Gauge, PVC insulated C2 3' C3 6' C4 12' C5 25' C6 50' C7 100' C8 250'													
74M	M18 - 1 mounting thread No conduit entry	6 .040" end sensing (Rated 2,000psi) (Model 72)			F ATEX/IECEX Zone 0 Ex ia IIC T6 Ga Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 50°C) (Wiring must be S)	Micro Connector* (Area Classification must be 7 or 8) DBA 3 pin DBD 4 pin													
76	5/8" - 18 mounting thread No conduit entry	Extended Sensing Range with External Target Magnets 72 Series <table border="1"> <thead> <tr> <th>Magnet</th><th>Sensing</th><th>Differential</th></tr> </thead> <tbody> <tr> <td>AMP3</td><td>0.12"</td><td>0.07"</td></tr> <tr> <td>AMS4</td><td>0.15"</td><td>0.10"</td></tr> <tr> <td>AMS7</td><td>0.13"</td><td>0.05"</td></tr> </tbody> </table>			Magnet	Sensing	Differential	AMP3	0.12"	0.07"	AMS4	0.15"	0.10"	AMS7	0.13"	0.05"	G ATEX/IECEX Zone 0 Ex ia IIC T4 Ga Ex ia IIIC T135°C Da (-40°C ≤ Ta ≤ 100°C) (Wiring must be S)	Quick Disconnect M12x1 (Area Classification must be 7 or 8) DMD 4 pin	
Magnet	Sensing	Differential																	
AMP3	0.12"	0.07"																	
AMS4	0.15"	0.10"																	
AMS7	0.13"	0.05"																	
76M	M18 - 1 mounting thread No conduit entry	Extended Sensing Range with External Target Magnets 74, 76 Series <table border="1"> <thead> <tr> <th>Magnet</th><th>Sensing</th><th>Differential</th></tr> </thead> <tbody> <tr> <td>AMP3</td><td>0.20"</td><td>0.25"</td></tr> <tr> <td>AMS4</td><td>0.35"</td><td>0.15"</td></tr> <tr> <td>AMS7</td><td>0.20"</td><td>0.05"</td></tr> </tbody> </table>			Magnet	Sensing	Differential	AMP3	0.20"	0.25"	AMS4	0.35"	0.15"	AMS7	0.20"	0.05"	H ATEX/IECEX Zone 0 Ex ia IIC T3 Ga Ex ia IIIC T200°C Da (-40°C ≤ Ta ≤ 150°C) (Wiring must be S)	Hi-Temp Leads 18 Gauge, Teflon™ F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250'	
Magnet	Sensing	Differential																	
AMP3	0.20"	0.25"																	
AMS4	0.35"	0.15"																	
AMS7	0.20"	0.05"																	
						Cable -18 Gauge Blue Silicone (Area Classification must be F, G, or H) S2 3' S3 6' S4 12' S5 25' S6 50' S7 100' S8 250'													
						Raychem Cable (Area Classification must be 9) R2 3' R3 6' R4 12' R5 25' R6 50' R7 100' R8 250'													
						* See pg. 29 for cordsets													
Model — —	Contact Form 1	Sensing Range —	Outlet Position —	Enclosure Material 6	Area Classification —	Wiring Options — — — —	Regional Certs —												

Ordering Guide

Fill in the boxes to create your ordering number.

GO™ Switch Models 70 Series with Connection Head Terminals

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
73 5/8" - 18 mounting thread	1 SPDT (Models 73 -77 & 71)	3 Standard sensing .100" end sensing (Rated 2,000psi)	5 Bottom of enclosure	6 316L stainless steel	X ATEX/IECEX Zone 1 Ex de IIC T6/T4 Gb Ex tb IIIC T85°C/T130°C Db, IP66 (-40°C≤Tas50°C/100°C) (Model 73 and 7G-1 Hermetically Sealed) Y ATEX/IECEX Zone 1 Ex de IIC T6/T4 Gb Ex tb IIIC T85°C/T130°C Db, IP66 (-40°C≤Tas50°C/100°C)	JAM Aluminum M20 conduit entry	P PESO
73M M18 -1 mounting thread	7G (Hermetically Sealed)	4 .072" end sensing (Rated 5,000psi)				JAP Aluminum 1/2" NPT conduit entry	K Kosha
75 5/8" - 18 mounting thread	2 DPDT (Model 7G & 71 only)	5 .060" end sensing (Rated 10,000psi)				JSM Stainless Steel M20 conduit entry	Blank
75M M18 - 1 mounting thread						JSP Stainless Steel 1/2" NPT conduit entry	
77 3/4" - 16 mounting thread		Extended Sensing Range with External Target Magnets 73,75, 77 Series					
7G 5/8" - 18 mounting thread							
7GM M18 - 1 mounting thread		Extended Sensing Range with External Target Magnets 7G & 71 Series					
71 1" - 14 mounting thread							
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
	1		5	6			

GO™ Switch Model 7L

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs												
7LG Green LED indication 5/8" - 18 mounting thread 1/2" NPT conduit entry	1 SPDT	3 Standard sensing approx. .100" end sensing	5 Bottom of enclosure	6 316L stainless steel (rated 2,000psi)	8 cULus listed General Purpose E cULus listed Cl I, Div 2, Grps A-D; Cl II, Div 2, Grps E-G; Class III (Wiring must be A or B) (Lead seal req'd within 18")	Lead Wires - 18 Gauge PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 18 Gauge PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250' Quick Disconnect* (Area Classification 8 only) Mini Connector* DCA 3 pin DCD 4 pin Quick Disconnect M12x1 (Area Classification 8 only) DMD 4 pin *See pg.29 for cordsets	Currently not available												
7LR Red LED indication 5/8" - 18 mounting thread 1/2" NPT conduit entry		<div>Extended Sensing Range with External Target Magnets</div> <table><thead><tr><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td>AMP3</td><td>0.20"</td><td>0.25"</td></tr><tr><td>AMS4</td><td>0.35"</td><td>0.15"</td></tr><tr><td>AMS7</td><td>0.20"</td><td>0.05"</td></tr></tbody></table>			Magnet	Sensing	Differential	AMP3	0.20"	0.25"	AMS4	0.35"	0.15"	AMS7	0.20"	0.05"			
Magnet	Sensing	Differential																	
AMP3	0.20"	0.25"																	
AMS4	0.35"	0.15"																	
AMS7	0.20"	0.05"																	
7LY Dual LED indication 5/8" - 18 mounting thread 1/2" NPT conduit entry																			
Note: LEDs wired to N/O contact only on models 7LG and 7LR																			
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs												
	1	3	5	6															

Note: LEDs wired to N/O contact only on models 7LG and 7LR

GO™ Switch Models 7G, 7H, & 7I (North America Area Classification)

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs									
<div>7G<div>5/8" - 18 mounting thread 1/2" NPT conduit entry</div></div> <div>7GM<div>M18 -1 mounting thread M20 conduit entry</div></div> <div>7H<div>5/8" - 18 mounting thread No conduit entry</div></div> <div>7I<div>1" - 14 mounting thread 1/2" NPT conduit entry</div></div>	<div>1<div>SPDT Hermetic Seal (7G only)</div></div> <div>2<div>DPDT</div></div>	<div>3<div>Standard sensing approx. .090" end sensing (Rated 2,000psi)</div></div>	<div>5<div>Bottom of enclosure</div></div>	<div>6<div>316L stainless steel</div></div>	<div>2<div>HiTemp to 400°F (Wiring F only)</div></div> <div>3<div>UL Cl I, Div 1, Grps A-D; Cl II, Div 1, Grps E-G; Cl III (Model 7G & 7I) (Wiring A, B, or F) (Lead seal req'd within 18" for contact form 2)</div></div> <div>4<div>cULus Cl I, Div 1, Grps A-D; Cl II, Div 1, Grps E-G; Cl III (Model 7G & 7I) (Wiring A, B, or F) (Lead seal req'd within 18" for contact form 2)</div></div> <div>5<div>UL Cl I, Div 2; Grps A-D; Cl II, Div 2; Grps F-G; Cl III (Model 7G & 7I) (Wiring A, B, or F) (Lead seal req'd within 18" for contact form 2)</div></div> <div>6<div>cULus Cl I, Div 2; Grps A-D; Cl II, Div 2; Grps F-G; Cl III (Model 7G & 7I) (Wiring A, B, or F) (Lead seal req'd within 18" for contact form 2)</div></div> <div>K<div>cULus Cl I, Div I; Grps A-D -40°C ≤ Ta ≤ 205°C (Model 7G only)</div></div> <div>7<div>cUL General Purpose</div></div> <div>8<div>UL General Purpose</div></div>	<div>Lead Wires - SPDT-18AWG PVC insulated DPDT- 20AWG PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250'</div> <div>Cable - SPDT-18AWG PVC insulated DPDT-22 AWG PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'</div> <div>Quick Disconnect Mini Connector* (Area Classification 7 or 8 only) (Contact must be 2) DCH 7 pin</div> <div>High Temp Leads SPDT-18AWG guage, Teflon™ insulated, DPDT-20AWG Teflon™ insulated F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250'</div> <div>*See pg.29 for cordsets</div>	Currently not available									
<div>Extended Sensing Range with External Target Magnets</div> <table><tr><td>Magnet</td><td>Sensing</td><td>Differential</td></tr><tr><td>AMP3</td><td>0.15"</td><td>0.30"</td></tr><tr><td>AMS4</td><td>0.20"</td><td>0.30"</td></tr></table>								Magnet	Sensing	Differential	AMP3	0.15"	0.30"	AMS4	0.20"	0.30"
Magnet	Sensing	Differential														
AMP3	0.15"	0.30"														
AMS4	0.20"	0.30"														
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs									
— — —	—	3	5	6	—	—	—									

Ordering Guide
Fill in the boxes to create your 'ordering number.'

GO™ Switch Models 7G, 7H, & 7I (IEC Area Classification)

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs									
7G <div>5/8" - 18 mounting thread 1/2" NPT conduit entry (3/4" NPT conduit entry for DPDT hermetic seal)</div>	<div>1 SPDT Hermetic Seal (7G only)</div> <div>2 DPDT</div>	<div>3 Standard sensing approx. .090" end sensing (Rated 2,000psi)</div>	<div>5 Bottom of enclosure</div>	<div>6 316L stainless steel</div>	<div>9 ATEX/IECEx Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C) (Wiring A or B) Ex db IIC T4 Gb, Ex tb IIIC T135°C Db, IP66 (-40C ≤ Ta ≤100°C/150°C) (Wiring F) Ex db IIC T3 Gb, Ex tb IIIC T200°C Db, IP66 (-40C ≤ Ta ≤150°C) (Wiring H) (7G-1, 7G-2 and 7I-2)</div> <div>T ATEX/IECEx Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C) (Wiring A) Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-60°C ≤ Ta ≤ 50°C) (Wiring B) (7G-1 only) Ex db IIC T4 Gb, Ex tb IIIC T135°C Db, IP66 (-40°C ≤ Tas100°C) (Wiring F) Ex db IIC T3 Gb, Ex tb IIIC T200°C Db, IP66 (-40°C ≤ Tas150°C) (Wiring H) (Models 7G-1 and 7G-2 Hermetically Sealed)</div> <div>F ATEX/IECEx Zone 0, Ex ia IIC T6 Ga, Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 50°C) (Models 7G-1 and 7G-2 Hermetically Sealed) (Wiring must be S)</div> <div>G ATEX/IECEx Zone 0, Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da (-40C ≤ Ta ≤ 100°C) (Models 7G-1 and 7G-2 Hermetically Sealed) (Wiring must be S)</div> <div>H ATEX/IECEx Zone 0, Ex ia IIC T3 Ga Ex ia IIIC T200°C Da (-40C ≤ Ta ≤ 150C) (Models 7G-1 and 7G-2 Hermetically Sealed) (Wiring must be S)</div>	<div>Lead Wires - SPDT-18AWG PVC insulated DPDT- 20AWG PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250'</div> <div>Cable - SPDT-18AWG PVC insulated DPDT-22 AWG PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'</div> <div>Hi-Temp Leads SPDT-18AWG gauge, Teflon™ insulated DPDT-20AWG Teflon™ insulated F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250'</div> <div>Hi-Temp Leads 18 gauge, Peek insulated H2 3' H3 6' H4 12' H5 25' H6 50' H7 100' H8 250'</div> <div>Cable - 18 gauge Blue Silicone (Area Classification must be F, G, or H) S2 3' S3 6' S4 12' S5 25' S6 50' S7 100' S8 250'</div>	<div>B InMetro (Area Classification 9 & T only)</div> <div>K KOSHA (Area Classification 9 & T only)</div> <div>N NEPSI (Area Classification 9 & T only)</div> <div>P PESO (Area Classification 9, T, F, G & H only)</div> <div>R EAC (Area Classification 9, T, F, G & H only)</div> <div>Blank</div>									
<div>Extended Sensing Range with External Target Magnets</div> <table><tr><td>Magnet</td><td>Sensing</td><td>Differential</td></tr><tr><td>AMP3</td><td>0.15"</td><td>0.30"</td></tr><tr><td>AMS4</td><td>0.20"</td><td>0.30"</td></tr></table>								Magnet	Sensing	Differential	AMP3	0.15"	0.30"	AMS4	0.20"	0.30"
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Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs									
— — —	—	3	5	6	—	—	—									

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs																								
71	3/8"- 24 mounting thread 1/2" NPT conduit entry	1 SPDT	3 Standard sensing .100" end sensing (Rated 2,000psi) Models 73-77	5 Bottom of enclosure	6 316L Stainless steel	2 HiTemp to 400°F (Wiring F only)	Lead Wires - 18 gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250'																								
71M	M12 -1 mounting thread M20 conduit entry	4 .072" end sensing (Rated 5,000psi) (Area Classification must be 2,3,7, or 8) Models 73-77				3 UL CI I Div 1, Grps A-D; CI II Div 1, Grps E-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18")	Cable - 18 gauge, PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'																								
73	5/8" - 18 mounting thread 1/2" NPT conduit entry	5 .060" end sensing (Rated 10,000psi) (Area Classifications must be 2,7, or 8) Models 73-77				4 cULus CI I Div 1 Grps A-D; CI II Div 1, Grps E-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18")	Quick Disconnect Mini Connector* (Area Classification must be 7 or 8) DCA 3 pin DCD 4 pin																								
73M	M18 - 1 mounting thread M20 conduit entry	6 .040" end sensing (Rated 2000 psi) Model 71				5 UL CI I Div 2 Grps A-D; CI II Div 2, Grps F,G; CI III (Wiring A, B, or F) (Lead Seal req'd within 18")	SubSea Connector* (Models 73-77) 3DD 3 pin 4DD 4 pin 3DE 3 pin 90° 4DE 4 pin 90°																								
75	5/8" - 18 mounting thread 1/2" NPT conduit entry					6 cULus CI I, Div 2 Grps A-D; CI II, Div 2 Grps F-G; CI III (Wiring A, B, or F) (Lead seal req'd within 18")	Hi-Temp Leads 18 gauge, Teflon™ F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250'																								
75M	M18 -1 mounting thread M20 conduit entry					K cULus CI I, Div I; Grps A-D -40°c ≤ Ta ≤ 205°c (Models 73,75,77)																									
77	3/4"-16 mounting thread 1/2" NPT conduit entry					7 cULus General Purpose (If a QDC is required. Connectors must be DCD, 4DD, or 4DE)																									
						8 UL General Purpose																									
<div>Extended Sensing Range with External Target Magnets 71 Series</div> <table><thead><tr><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td>AMP3</td><td>0.12"</td><td>0.07"</td></tr><tr><td>AMS4</td><td>0.15"</td><td>0.10"</td></tr><tr><td>AMS7</td><td>0.13"</td><td>0.05"</td></tr></tbody></table> <div>Extended Sensing Range with External Target Magnets 73,75, 77 Series</div> <table><thead><tr><th>Magnet</th><th>Sensing</th><th>Differential</th></tr></thead><tbody><tr><td>AMP3</td><td>0.20"</td><td>0.25"</td></tr><tr><td>AMS4</td><td>0.35"</td><td>0.15"</td></tr><tr><td>AMS7</td><td>0.20"</td><td>0.05"</td></tr></tbody></table>								Magnet	Sensing	Differential	AMP3	0.12"	0.07"	AMS4	0.15"	0.10"	AMS7	0.13"	0.05"	Magnet	Sensing	Differential	AMP3	0.20"	0.25"	AMS4	0.35"	0.15"	AMS7	0.20"	0.05"
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<div>Ordering Guide</div> <div>Fill in the boxes to create your 'ordering number.'</div> <table><tr><td>Model</td><td>Contact Form</td><td>Sensing Range</td><td>Outlet Position</td><td>Enclosure Material</td><td>Area Classification</td><td>Wiring Options</td><td>Regional Certs</td></tr><tr><td>—</td><td>1</td><td>—</td><td>5</td><td>6</td><td>—</td><td>—</td><td>—</td></tr></table>								Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs	—	1	—	5	6	—	—	—								
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs																								
—	1	—	5	6	—	—	—																								

GO™ Switch Models 71,73,75,77 (IEC Area Classification)

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
71	1 SPDT	3 Standard sensing .100" end sensing (Rated 2000psi) Models 73-77	5 Bottom of enclosure	6 316L Stainless steel	9 ATEX/IECEX Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C) (Wiring A or B) Ex db IIC T4 Gb, Ex tb IIIC T135°C Db, IP66 (-40°C ≤ Ta ≤ 100°C) (Wiring F) Ex db IIC T3 Gb, Ex tb IIIC T200°C Db, IP66 (-40°C ≤ Ta ≤ 150°C) (Wiring H)	Lead Wires - 18 Gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 18 Gauge, PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250' Hi-Temp Leads 18 Gauge, Teflon™ F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250' Hi-Temp Leads 18 Gauge, Peek insulated H2 3' H3 6' H4 12' H5 25' H6 50' H7 100' H8 250' Cable - 18 Gauge Blue Silicone (Area Classifica- tion must be F, G, or H) S2 3' S3 6' S4 12' S5 25' S6 50' S7 100' S8 250'	B InMetro (Area Classification 9 & T only) (73, 75, 77) K KOSHA (Area Classification 9 & T only) N NEPSI (Area Classification 9 & T only) (73, 75, 77) P PESO (Area Classification 9, T, F, G & H only) (73, 75, 77) R EAC (Area Classification 9, T, F, G & H only) Blank
71M	M12 -1 mount- ing thread M20 conduit entry	4 .072" end sensing (Rated 5,000psi) (Area Classification must be 9 & T) Models 73-77					
73	5/8" - 18 mounting thread 1/2" NPT conduit entry	5 .060" end sensing (Rated 10,000psi) (Area Classification must be 9 & T) Models 73-77					
73M	M18 - 1 mount- ing thread M20 conduit entry	6 .040" end sensing (Rated 2,000psi) Model 71					
75	5/8" - 18 mounting thread 1/2" NPT conduit entry						
75M	M18 -1 mount- ing thread M20 conduit entry						
77	3/4"-16 mount ing thread 1/2" NPT conduit entry						

**Extended Sensing Range with External Target Magnets
71 Series**

Magnet	Sensing	Differential
AMP3	0.12"	0.07"
AMS4	0.15"	0.10"
AMS7	0.13"	0.05"

**Extended Sensing Range with External Target Magnets
73,75, 77 Series**

Magnet	Sensing	Differential
AMP3	0.20"	0.25"
AMS4	0.35"	0.15"
AMS7	0.20"	0.05"

Ordering Guide
Fill in the boxes to create your
'ordering number.'

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
—	1	—	5	6	—	—	—

GO™ Switch Models 7J

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
7J 5/8" x 2 5/32" 1/2" NPT	1 SPDT	3 Standard sensing approx. 2.5 mm (0.100") end sensing	5 Bottom of enclosure	2 303 stainless steel	3 UL CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (lead seal req'd within 18")	JSP (1/2" NPT) only available with 7J	N NEPSI (Area Classification 9 only)
7JM M18 x 1				6 316L stainless steel	4 cULus CI I, Div 1, Grps A-D; CI II, Div 1, Grps E-G; CI III (Lead seal req'd within 18")	JSM (M20) only avail able with 7JM	R EAC (Area Classification 9)
					5 UL CI I, Div 2, Grps A-D; CI II, Div 2, Grps F-G; CI III (Lead seal req'd within 18")		Blank
					6 cULus CI I, Div 2, Grps A-D; CI II, Div 2, Grps F-G; CI III (Lead seal req'd within 18")		
					7 cULus General Purpose		
					8 UL General Purpose		
					9 ATEX/IECEX Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66/68 (-40°C ≤ Ta ≤ 75°C)		
					Y ATEX/IECEX Zone 1 Ex de IIC T6 Gb, Ex tb IIIC T85°C Db, IP66/68 (-40°C ≤ Ta ≤ 75°C)		
					F ATEX/IECEX Zone 0 Ex ia IIC T6 Ga Ex ia IIIC T85°C Da (-40°C ≤ Ta ≤ 50°C)		
					G ATEX/IECEX Zone 0 Ex ia IIC T4 Ga Ex ia IIIC T135°C Da (-40°C ≤ Ta ≤ 100°C)		
					H ATEX/IECEX Zone 0 Ex ia IIC T3 Ga Ex ia IIIC T200°C Da (-40°C ≤ Ta ≤ 150°C)		
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
— —	1	3	5	2	—	— —	—

GO™ Switch Models 7C, 7D, 7E & 7F

Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
7C 1.025" probe length	2 SPST (Form A) N/O output with bi-color LED indication	3 Standard sensing approx. .090" end sensing (Recommended air gap .015" - .040")	2 Side entry 360° adjustable (Wiring A, B, or F only) No conduit hub 5	5 Stainless steel (rated 3,000psi operating) (3 to 1 safety factor applies to standard probe lengths)	2 HiTemp to 400°F (Contact 4, 7, or 8 only) (Wiring F only)	Lead Wires - 18 gauge, PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250'	Currently not available
7CX 1.025" probe length (Contact Form 4 only) (Outlet Position 5 only)	3 SPST (Form B) N/C output with bi-color LED indication		5 Top outlet		3 UL CI I Div 1, Grps A-D; CI II Div1, Grps E-G; CI III (7CX and 7DX only) (Does not incl. a ground wire)	Cable - 18 gauge, PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250'	
7D 1.250" probe length	4 SPDT (Form C) without LED		6 Side entry 360° adjustable No conduit hub (Approval 7 or 8 only) (Wiring D or SubSea only)		4 cULus CI I Div 1, Grps A-D; CI II Div1, Grps E-G; CI III (7CX and 7DX only)	Quick Disconnect Mini Connector* (Area Classification must be 7 or 8) DCA 3 pin DCD 4 pin	
7DX 1.250" probe length (Contact Form 4 only) (Outlet Position 5 only)	5 SPDT (Form C) with dual LED's		7 Side entry 360° adjustable with 1/2" NPT conduit hub (Wiring A, B, or F only)		5 UL CI I Div 2, Grps A-D; CI II Div 2, Grps F-G; CI III (7CX and 7DX only) (Does not incl. a ground wire)	Quick Disconnect M12x1 (Area Classification must be 7 or 8) DMD 4 pin	
7E 2.062" probe length	7 SPST (Form A) N/O output w/o LED indication		8 Top outlet (Wiring SubSea only)		6 cULus CI I Div 2, Grps A-D; CI II Div2, Grps F-G; CI III (7CX and 7DX only)	Micro Connector* (Area Classification must be 7 or 8) DBA 3 pin DBD 4 pin	
7F Custom probe length* 1.000" -5.000" Use the "Probe Selection Chart" to find Probe Code, then the "Pricing Table" to determine base price. (See pg 26)	8 SPST (Form B) N/C output w/o LED indication				7 cUL General Purpose (If a QDC is required. Connectors must be DCD, DBD, 4DD, or 4DE)	SubSea Connector* 3DD 3 pin 4DD 4 pin 3DE 3 pin 90° 4DE 4 pin 90°	
					8 UL General Purpose (Does not incl. a ground wire)	Hi-Temp Leads 18 gauge, Teflon™ insulated F2 3' F3 6' F4 12' F5 25' F6 50' F7 100' F8 250'	
					9 ATEX/IECEx Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C) (Wiring A or B) Ex db IIC T4 Gb, Ex tb IIIC T135°C Db, IP66 (-40°C ≤ Ta ≤ 100°C) (Wiring F) Ex db IIC T3 Gb, Ex tb IIIC T200°C Db, IP66 (-40°C ≤ Ta ≤ 150°C) (Wiring H)	*See pg.29 for cordsets	
					T ATEX/IECEx Zone 1 Ex db IIC T6 Gb, Ex tb IIIC 85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C) (Wiring A or B) Ex db IIC T4 Gb, Ex tb IIIC T135°C Db, IP66 (-40°C ≤ Ta ≤ 100°C) (Wiring F) Ex db IIC T3 Gb, Ex tb IIIC T200°C Db, IP66 (-40°C ≤ Ta ≤ 150°C) (Wiring H) (7CX and 7DX only, Hermetically Sealed)		
Model	Contact Form	Sensing Range	Outlet Position	Enclosure Material	Area Classification	Wiring Options	Regional Certs
		3		5			

Probe Selection Chart

"A" Range		Probe		"A" Range		Probe		"A" Range		Probe	
Min	Max	Length	Code	Min	Max	Length	Code	Min	Max	Length	Code
1.015	1.040	1.000	A1	2.365	2.390	2.350	G1	3.715	3.740	3.700	N1
1.040	1.065	1.025	*	2.390	2.415	2.375	G2	3.740	3.765	3.725	N2
1.065	1.090	1.050	A3	2.415	2.440	2.400	G3	3.765	3.790	3.750	N3
1.090	1.115	1.075	A4	2.440	2.465	2.425	G4	3.790	3.815	3.775	N4
1.115	1.140	1.100	A5	2.465	2.490	2.450	G5	3.815	3.840	3.800	N5
1.140	1.165	1.125	A6	2.490	2.515	2.475	G6	3.840	3.865	3.825	N6
1.165	1.190	1.150	A7	2.515	2.540	2.500	G7	3.865	3.890	3.850	N7
1.190	1.215	1.175	A8	2.540	2.565	2.525	G8	3.890	3.915	3.875	N8
1.215	1.240	1.200	A9	2.565	2.590	2.550	G9	3.915	3.940	3.900	N9
1.240	1.265	1.225	B1	2.590	2.615	2.575	H1	3.940	3.965	3.925	P1
1.265	1.290	1.250	**	2.615	2.640	2.600	H2	3.965	3.990	3.950	P2
1.290	1.315	1.275	B3	2.640	2.665	2.625	H3	3.990	4.015	3.975	P3
1.315	1.340	1.300	B4	2.665	2.690	2.650	H4	4.015	4.040	4.000	P4
1.340	1.365	1.325	B5	2.690	2.715	2.675	H5	4.040	4.065	4.025	P5
1.365	1.390	1.350	B6	2.715	2.740	2.700	H6	4.065	4.090	4.050	P6
1.390	1.415	1.375	B7	2.740	2.765	2.725	H7	4.090	4.115	4.075	P7
1.415	1.440	1.400	B8	2.765	2.790	2.750	H8	4.115	4.140	4.100	P8
1.440	1.465	1.425	B9	2.790	2.815	2.775	H9	4.140	4.165	4.125	P9
1.465	1.490	1.450	C1	2.815	2.840	2.800	J1	4.165	4.190	4.150	R1
1.490	1.515	1.475	C2	2.840	2.865	2.825	J2	4.190	4.215	4.175	R2
1.515	1.540	1.500	C3	2.865	2.890	2.850	J3	4.215	4.240	4.200	R3
1.540	1.565	1.525	C4	2.890	2.915	2.875	J4	4.240	4.265	4.225	R4
1.565	1.590	1.550	C5	2.915	2.940	2.900	J5	4.265	4.290	4.250	R5
1.590	1.615	1.575	C6	2.940	2.965	2.925	J6	4.290	4.315	4.275	R6
1.615	1.640	1.600	C7	2.965	2.990	2.950	J7	4.315	4.340	4.300	R7
1.640	1.665	1.625	C8	2.990	3.015	2.975	J8	4.340	4.365	4.325	R8
1.665	1.690	1.650	C9	3.015	3.040	3.000	J9	4.365	4.390	4.350	R9
1.690	1.715	1.675	D1	3.040	3.065	3.025	K1	4.390	4.415	4.375	S1
1.715	1.740	1.700	D2	3.065	3.090	3.050	K2	4.415	4.440	4.400	S2
1.740	1.765	1.725	D3	3.090	3.115	3.075	K3	4.440	4.465	4.425	S3
1.765	1.790	1.750	D4	3.115	3.140	3.100	K4	4.465	4.490	4.450	S4
1.790	1.815	1.775	D5	3.140	3.165	3.125	K5	4.490	4.515	4.475	S5
1.815	1.840	1.800	D6	3.165	3.190	3.150	K6	4.515	4.540	4.500	S6
1.840	1.865	1.825	D7	3.190	3.215	3.175	K7	4.540	4.565	4.525	S7
1.865	1.890	1.850	D8	3.215	3.240	3.200	K8	4.565	4.590	4.550	S8
1.890	1.915	1.875	D9	3.240	3.265	3.225	K9	4.590	4.615	4.575	S9
1.915	1.940	1.900	E1	3.265	3.290	3.250	L1	4.615	4.640	4.600	T1
1.940	1.965	1.925	E2	3.290	3.315	3.275	L2	4.640	4.665	4.625	T2
1.965	1.990	1.950	E3	3.315	3.340	3.300	L3	4.665	4.690	4.650	T3
1.990	2.015	1.975	E4	3.340	3.365	3.325	L4	4.690	4.715	4.675	T4
2.015	2.040	2.000	E5	3.365	3.390	3.350	L5	4.715	4.740	4.700	T5
2.040	2.065	2.025	E6	3.390	3.415	3.375	L6	4.740	4.765	4.725	T6
2.065	2.090	2.050	E7	3.415	3.440	3.400	L7	4.765	4.790	4.750	T7
2.090	2.115	2.075	E8	3.440	3.465	3.425	L8	4.790	4.815	4.775	T8
2.115	2.140	2.100	E9	3.465	3.490	3.450	L9	4.815	4.840	4.800	T9
2.140	2.165	2.125	F1	3.490	3.515	3.475	M1	4.840	4.865	4.825	V1
2.165	2.190	2.150	F2	3.515	3.540	3.500	M2	4.865	4.890	4.850	V2
2.190	2.215	2.175	F3	3.540	3.565	3.525	M3	4.890	4.915	4.875	V3
2.215	2.240	2.200	F4	3.565	3.590	3.550	M4	4.915	4.940	4.900	V4
2.240	2.265	2.225	F5	3.590	3.615	3.575	M5	4.940	4.965	4.925	V5
2.265	2.290	2.250	F6	3.615	3.640	3.600	M6	4.965	4.990	4.950	V6
2.290	2.315	2.275	F7	3.640	3.665	3.625	M7	4.990	5.015	4.975	V7
2.315	2.340	2.300	F8	3.665	3.690	3.650	M8	5.015	5.040	5.000	V8
2.340	2.365	2.325	F9	3.690	3.715	3.675	M9				

Pricing Table

Probe Code

A1 - A9
 B1 - B9
 C1 - C9
 D1 - D9
 E1 - E9
 F1 - F9
 G1 - G9
 H1 - H9
 J1 - J9
 K1 - K9
 L1 - L9
 M1 - M9
 N1 - N9
 P1 - P9
 R1 - R9
 S1 - S9
 T1 - T9
 V1 - V8

DEFENDER™ - Turbine Trip Switch System

Model	GO Switches	Wiring Options
48 Defender Turbine Valve Monitoring System Heavy Duty 11 Gauge Steel 12" x 10" x 5" - ANSI 61 Light Gray	Model 74-LLS: SPDT, environmentally sealed, rated 4A @ 120VAC, 3A @ 24VDC, with prewired HiTemp™ Teflon lead wires. Choose number of switches (minimum 1, maximum 10) 01000 (1) Leverless Limit Switch 02000 (2) Leverless Limit Switches 03000 (3) Leverless Limit Switches 04000 (4) Leverless Limit Switches 05000 (5) Leverless Limit Switches 06000 (6) Leverless Limit Switches 07000 (7) Leverless Limit Switches 08000 (8) Leverless Limit Switches 09000 (9) Leverless Limit Switches 10000 (10) Leverless Limit Switches	000 Male/Female Mil Spec Quick Disconnect with back shell connection to 1-1/4" flex conduit 001 Male/Female Mil Spec Quick Disconnect with 25 ft. cable 002 Male/Female Mil Spec Quick Disconnect with 50 ft. cable 003 Male/90° Female Mil Spec Quick Disconnect with back shell connection to 1-1/4" flex conduit 004 Male/90° Female Mil Spec Quick Disconnect with 25 ft. cable 005 Male/90° Female Mil Spec Quick Disconnect with 50 ft. cable 006 Male/45° Female Mil Spec Quick Disconnect with back shell connection to 1-1/4" flex conduit 007 Male/45° Female Mil Spec Quick Disconnect with 25 ft. cable 008 Male/45° Female Mil Spec Quick Disconnect with 50 ft. cable 010 Male/90° Female Mil Spec Quick Disconnect with 25 ft. of HiTemp™ cable 012 Male/Female Mil Spec Quick Disconnect with 75 ft. cable 013 Male/90° Female Mil Spec Quick Disconnect with 100 ft. cable 016 Male/90° Female Mil Spec Quick Disconnect with 50 ft. of HiTemp™ cable
Model 48	GO Switches — — — — —	Wiring Options — — — — —

Ordering Guide

Fill in the boxes to create your 'ordering number.'

DEFENDER Accessories

Description	Part Number	List Price
DEFENDER Calibration Unit	ACP 48	
GO™ Switch	74-LLS	

GO™ Switch Model 7A

Model	Port Arrangement	Sensing Range	Port Position	Enclosure Material	Area Classification	Termination
7A 5/8" (16mm) dia. x 3-15/16" (100mm) long with 5/8"-18UNF x 1-7/8" (48mm) threads	7 Supply, Cylinder, and Exhaust (60 psi max supply pressure)	3 Standard sensing approx. .062"	2 Three side port outlets (1/8"-27 NPT) 3-way	2 303 stainless steel (rated 2,000psi) 6 Aluminum base, stainless steel probe (rated 2,000psi)	1 No approvals	99 Always "99"
Model 7A	Port Arrangement 7	Sensing Range 3	Port Position 2	Enclosure Material —	Area Classification 1	Termination 99

Model LPS

Model	Sensor	Area Classification	Visual Display	Wiring
LPS Luminator Linear Position Sensor	D (1) SPDT Hermetically sealed W (1) SPST Hermetically sealed	Z1 c-UL-us listed explosion proof CI I, Div 1 & 2, Grps A-D CI II, Div 1 & 2, Grps E-G; CI III (Visual Display option must be N) Z2 c-UL-us non-incendive CI I, Div 2, Grps A-D CI II, Div 2, Grps E-G; Class III GP c-UL-us listed general purpose	G Green LED (Area Class Z2 or GP only) R Red LED (Area Class Z2 or GP only) N No visual indication Note: LEDs wired to N/O contact only	Lead Wires - 18 gauge PVC insulated A2 3' A3 6' A4 12' A5 25' A6 50' A7 100' A8 250' Cable - 18 Gauge PVC insulated B2 3' B3 6' B4 12' B5 25' B6 50' B7 100' B8 250' Quick Disconnect Mini Connector* (Approval must be GP) DCA 3 pin DCD 4 pin *See pg.29 for cordsets
Model LPS	Sensor —	Area Classification — —	Visual Display —	Wiring — — — — —

Ordering Guide

Fill in the boxes to create your 'ordering number.'

Nuclear Qualified Switches

Model	Sensor	Target	Outlet Position	Enclosure	Area Classification	Termination
<div>C7 Nuclear Containment</div> <div>C8 Nuclear Containment</div> <div>H7 Harsh Nuclear</div> <div>H8 Harsh Nuclear</div> <div>M7 Mild Nuclear</div> <div>M8 Mild Nuclear</div> <div>R7 Ringhals Containment</div> <div>SV7 **MSIV AP1000</div> <div>*CONTACT FACTORY for EPR Qualified Sensors</div>	<div>1 Single Pole Double Throw (Form C) (C7, & R7 Hermetically Sealed)</div> <div>2 Double Pole Double Throw (Form CC) (C8, H8, & M8 Hermetically Sealed)</div>	<div>3 C-AMS7A (sensing range determined by switch model)</div> <div>4 C-AMS12 (extended sensing range determined by switch model)</div>	<div>5 Bottom of Enclosure</div>	<div>2 303 Stainless Steel</div>	<div>T ATEX/IECEX Zone 1 Ex db IIC T6 Gb (P & Z Terminations only)(Cert not available with SV7 Model)</div> <div>1 No additional approvals</div> <div>2 RCC-E EPR K1++ (C7 only) w/Mirion Connector</div> <div>3 RCC-E EPR K1+ (C7 only) w/Mirion Connector</div> <div>4 RCC-E EPR K1 (C7 or H7 only) w/ Souria 8NA Connector</div> <div>5 RCC-E EPR K2 w/ Souria 8NA45 Connector or Lead Wire</div> <div>6 RCC-E EPR K3 w/ Souriau 8NA45 Connector or Lead Wire</div> <div>Note: All applications requiring IP67/68 must be provided with EGS Flex Conduit</div>	<div>Peek Cable - (C7, R7, C8, H8, M8) Peek Wire - (H7 & SV7 Only)</div> <div>P3 6'</div> <div>P4 12'</div> <div>P20 20'</div> <div>P_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>Tefzel Wire - (M7 Only)</div> <div>Z3 6'</div> <div>Z4 12'</div> <div>Z20 20'</div> <div>Z_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>EGS Flex Conduit Peek Cable (All Except H7, M7)</div> <div>PC3 6'</div> <div>PC4 12'</div> <div>PC20 20'</div> <div>PC_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>EGS GEN 3 Disconnect and Matching Cable (C7, H7, M7, R7, C8, H8, M8)</div> <div>E0 Switch side only, cable not included</div> <div>E3 6'</div> <div>E4 12'</div> <div>E20 20'</div> <div>E_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>Mirion Disconnect (C7 & H7 Only)</div> <div>M0 Connector only only, cable not included</div> <div>M3 6'</div> <div>E4 12'</div> <div>M20 20'</div> <div>M_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>Souria 8NA Disconnect (C7, H7 & SV7 Only)</div> <div>K1S0 Connector only only, cable not included</div> <div>K1S3 6'</div> <div>K1S4 12'</div> <div>K120 20'</div> <div>K1S_ _ _ Greater than 20' - specify length in 5ft. increments</div> <div>Souria 8NA45 Disconnect (H7 & M7 Only)</div> <div>K2S0 Connector only only, cable not included</div> <div>K2S3 6'</div> <div>K2S4 12'</div> <div>K2S20 20'</div> <div>K2S_ _ _ Greater than 20' - specify length in 5ft. increments</div>
TopWorx™ has a complete line of globally nuclear qualified position sensors that have been tested to and/or exceed new generation and existing plant qualifications.						
Ordering Guide Fill in the boxes to create your 'ordering number.'						
Model	Sensor	Target	Outlet Position	Enclosure	Area Classification	Termination
— —	—	—	5	2	—	— — —

TopWorx Nuclear DXN

Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries	O-Rings	Termination
DXN 316L Stainless Steel Discrete Valve Controller	LN 2 Nuclear GO Switches, SPDT with Hermetic Seal	Q Containment Z Harsh P Mild	D No Indicator	N Namur 304 Stainless Steel S 1/4" DD 304 Stainless Steel	E (2) 3/4" NPT M (2) M20 3 (4) M20 4 (2) 3/4" (2) 1/2" NPT 6 (4) 3/4" NPT N (4) 3/4" NPT w/ EGS GEN 3 Disconnect & Matching Cable & (2) 3/4" NPT plugs	S Silicone	Peek Cable _3 72" _4 144" _20 20' _ _ _ Greater than 144" specify length in 5ft. increments
Ordering Guide Fill in the boxes to create your 'ordering number.'							
Enclosure	Bus/Sensor	Area Classification	Visual Display	Shaft	Conduit Entries	O-Rings	Termination
DXN	LN	—	D	—	—	S	— — —

NOTE: Nuclear products are limited to pre-approved distributors only. CONTACT FACTORY for all pricing.

GO™ Switch Accessories

Description	Part Number	List Price	Description	Part Number	List Price
Mini Cordsets			Micro Cordsets		
3-Pin			3-Pin		
3 - Pin, 3 ft. (.9 m)	A-ECA		3 - Pin, 6 ft. (1.8 m)	A-EBB	
3 - Pin, 6 ft. (1.8 m)	A-ECB		3 - Pin, 12 ft. (3.6 m)	A-EBC	
3 - Pin, 12 ft. (3.6 m)	A-ECC		3 - Pin, 20 ft. (6.1 m)	A-EBU	
3 - Pin, 20 ft. (6.1 m)	A-ECU		3 - Pin, 30 ft. (9.1 m)	A-EBV	
3 - Pin, 30 ft. (9.1 m)	A-ECV				
3 - Pin, 3 ft. 90° (.9 m)	A-ECA-90		4-Pin		
3 - Pin, 6 ft. 90° (1.8 m)	A-ECB-90		4 - Pin, 6 ft. (1.8 m)	A-EBE	
3 - Pin, 12 ft. 90° (3.6 m)	A-ECC-90		4 - Pin, 12 ft. (3.6 m)	A-EBF	
			4 - Pin, 20 ft. (6.1 m)	A-EBW	
			4 - Pin, 30 ft. (9.1 m)	A-EBX	
4-Pin					
4 - Pin, 3 ft. (.9 m)	A-ECD		5-Pin		
4 - Pin, 6 ft. (1.8 m)	A-ECE		5 - Pin, 6 ft. (1.8 m)	A-EBT	
4 - Pin, 12 ft. (3.6 m)	A-ECF		5 - Pin, 12 ft. (3.6 m)	A-EBL	
4 - Pin, 20 ft. (6.1 m)	A-ECW		5 - Pin, 20 ft. (6.1 m)	A-EBY	
4 - Pin, 30 ft. (9.1 m)	A-ECX		5 - Pin, 30 ft. (9.1 m)	A-EBZ	
5-Pin					
5 - Pin, 3 ft. (.9 m)	A-ECG		Euro M12 Cordsets		
5 - Pin, 6 ft. (1.8 m)	A-ECT		4-Pin		
5 - Pin, 12 ft. (3.6 m)	A-ECL		4 - Pin, 3 ft. (.9 m)	A-EMA	
5 - Pin, 20 ft. (6.1 m)	A-ECY		4 - Pin, 6 ft. (1.8 m)	A-EME	
5 - Pin, 30 ft. (9.1 m)	A-ECZ		4 - Pin, 12 ft. (3.6 m)	A-EMF	
			4 - Pin, 20 ft. (6.1 m)	A-EMW	
7-Pin			4 - Pin, 30 ft. (9.1 m)	A-EMX	
7 - Pin, 3 ft. (.9 m)	A-ECH		4 - Pin, 3 ft. 90° (.9 m)	A-EMA-90	
7 - Pin, 6 ft. (1.8 m)	A-ECJ		4 - Pin, 6 ft. 90° (1.8 m)	A-EME-90	
7 - Pin, 12 ft. (3.6 m)	A-ECK		4 - Pin, 12 ft. 90° (3.6 m)	A-EMF-90	
7 - Pin, 20 ft. (6.1 m)	A-EFA				
7 - Pin, 30 ft. (9.1 m)	A-EFB				
SubSea™ Underwater Cordsets			Watertight Cable Gland		
16 gauge SO cable rated 194°F (90°C) 600V (certified not to leak underwater) (Specify length of cable (ft.) required.) (e.g. A-3ED20 = 3 pin and 20 ft. cable)			Plastic cable gland is easy to install on any GO Switch with a 1/2" NPT or M20 conduit entry.		
3 pin female connector and minimum 12 ft. (3658 mm) (3 pin .395" dia.) cable	A-3ED12 A-3ED_ _		3 or 4 conductor SO cable, 1/2" NPT	A-GLD1	
4 pin female connector and minimum 12 ft. (3658 mm) (4 pin .425" dia.) cable	A-4ED12 A-4ED_ _		3 or 4 conductor PVC/Silicone/Raychem cable, 1/2" NPT	A-GLD2	
8 pin female connector and minimum 12 ft. (3658 mm) (8 pin .645" dia.) cable	A-8ED12 A-8ED_ _		3 or 4 conductor SO cable, M20	A-GLM1	
3 pin 90° female connector w/ minimum 12 ft. (3658 mm) (3 pin .395" dia) cable	A-3EE12 A-3EE_ _		3 or 4 conductor PVC/Silicone, Raychem cable, M20	A-GLM2	
4 pin 90° female connector w/ minimum 12 ft. (3658 mm) (4 pin .425" dia) cable	A-4EE12 A-4EE_ _		Hazardous Location Conduit Union		
			Designed specifically for hazardous locations, these glands are approved for class 1, 2, and 3 locations.		
			1/2" NPT expanding	A-UNX	
			1/2" NPT non-expanding	A-UNN	

GO™ Switch Accessories

Part Number

List Price

Square Switches

10 Series stainless steel heavy duty mounting kit	ABS2
10 - 20 Series stainless steel universal mounting kit	ABS3
10 - 20 Series brass combination cover plate and mounting kit	ABB4
10 - 20 Series stainless steel combination cover plate and mounting kit	ABS5
80 Series stainless steel mounting kit	ABS6
35 Series stainless steel strap bracket	ABS11
10 - 20 Series brass cover plate	AHB1
10 - 20 Series brass bottom cover plate with 1/2" x 14 NPT conduit outlet	AHB3
10 - 20 Series stainless steel cover plate	AHS2

Round Switches

70 Series stainless steel heavy duty "L" bracket	ABS9
Stroke-To-GO® mounting hardware (2) 1/4-20 x 5/8 stainless steel cap screws	AHN1
3/8" nickel plated brass jam nuts (2) for Models 71 and 72	AHS7
M12x1 316 stainless steel jam nuts (2) for model 52M, 71M and 72M	AHS-27
5/8" nickel plated brass jam nuts (2) for Models 73, 74, 75, 76, 7A, 7G and 7H	AHS8
5/8" stainless steel jam nuts (2) for Models 73, 74, 75, 76, 7A, 7G and 7H	AHS18
3/4" stainless steel jam nuts (2) for Model 77	AHS9
3/8" Parker ThredSeal®, nut and washer for Models 71 and 72	AHS13
5/8" Parker ThredSeal®, nut and washer for Models 73, 74, 75, 76, 7A, 7G and 7H	AHS14
3/4" Parker ThredSeal®, nut and washer for Model 77	AHS15
1" Parker ThredSeal®, nut and washer for Model 71	AHS17
1" zinc plated steel jam nuts (2) for Model 71	AHS16
5/8" Parker ThredSeal®, nut and washer (Viton™) for Models 73, 74, 75, 76, 7A, 7G and 7H	AHS19
3/4" Parker ThredSeal®, nut and washer (Viton™) for Model 77	AHS20
3/8" Parker ThredSeal®, nut and washer (Viton™) for Models 71 and 72	AHS23
Grafoil™ sealant tape for 70 Series (.005 x 1/2" x 24")	AHF16

Target Magnets

Plastic covered Target Magnet with 7/32" (6mm) mounting holes; 7/8" x 2 9/16" x 17/32" thick	AMP3
Stainless Steel covered Target Magnet with 3/16" (5mm) holes; 1 1/4" x 17/16" x 1" thick	AMS4
Stainless Steel covered Target Magnet with 5/16" (8mm) mounting holes; 2 15/16" x 5" x 25/32" thick	AMC5
Flexible Target Magnet; 3" x 12" x 3/8" for all square switches	AMF6
Bolt Style Target Magnet in threaded assembly 2" long with 7/16" -20 thread for round switches	AMS7
Bolt Style Target Magnet in threaded assembly 1" long with 3/8-16 x 3/4" threads	AMS8
Bolt Style Target Magnet in threaded assembly 2" x 11/16" long with 7/16" -20 thread for round switches	AMS12

Other Accessories

GO™ Switch Demo Case	
(Includes cutaway GO™ Switch models 20, 30, 35, 70, 80, & STG, and accessories)	ATK1
GO™ Switch Tester	ATP1
GO™ Switch Demo Pouch	ATK72
(Includes cutaway GO™ Switch Models 20 & 70)	

Rosemount 702 Discrete Transmitter*

Model	Product Description	Base
702DX	Discrete Transmitter Wireless Field Mount Transmitter Wireless Output	
Options		
Code	Measurement	Add
61	Leak Detection (For Trace Tek® Sensor Cables & Probes)	
32	Discrete Dual Inputs (Dry Contact) Detects Momentary Inputs and Counts	
42	Discrete Dual Input and Output, Configurable	
Code	Housing	Add
D	Dual Compartment Housing - Aluminum	
E	Dual Compartment Housing - Stainless Steel	
Code	Conduit Threads	Add
1	1/2-14NPT	
Code	Certifications	Add
I5	FM Intrinsically Safe, Non-incendive	
I1	ATEX Intrinsically Safe	
I6	CSA Intrinsically Safe	
I7	IECEX Intrinsically Safe	
NA	No Approval	
I2	INMETRO Intrinsically Safe	
I3	NEPSI Intrinsically Safe	
I4	TIIS Intrinsically Safe	
IU	ATEX Intrinsically Safe for Zone 2	
IY	IECEX Intrinsically Safe for Zone 2	
N5	FM Division 2, Non-Incendive	
N6	CSA Division 2, Non-Incendive	
Code	Wireless Burst Rate, Operating Frequency and Protocol Add	Add
WA3	User Configurable Transmit Rate, 2.4GHz DSSS, Wireless HART	
Code	Wireless Antenna and SmartPower Options	Add
WK1 ⁽¹⁾	Long Range, Integral Antenna, Long Life Power Module Adapter, Intrinsically Safe	
WM1 ⁽¹⁾	Extended range, Integral Antenna, Long Life Power Module Adapter, Intrinsically Safe	
WN1	High-gain, Remote Antenna, Adaptor for Black Power Module (I.S. Power Module sold separately)	
Code	Meter	Add
M5	LCD Meter	
Code	Mounting Bracket	Add
B4	Universal L mounting bracket for 2- inch pipe mounting - SST bracket and bolts	
Code	Configuration	Add
C1	Factory Configure Date, Descriptor, Message Fields and Wireless Parameters	
Code	Cable Gland	Add
G2	Cable Gland (7.5mm-11.9mm)	
G4	Thin Wire Cable Gland (3mm-8mm)	

*Long-life Power Module must be ordered and shipped separately, order model 701PBKKF

Rosemount 702 Power Modules

Description	Part Number	Price
Power Module for Emerson Devices	701PBKKF	

*Standard options listed. For other, non-listed options, please contact your Topworx™ Sales Representative.

Wired Safety Shower Mounting Kits

Model	Product Description	Quantity	Price
WL-UN01-11L	Safety Shower and Eyewash Station Kit w/ UL General Purpose Latching Switches #4-U13060-S51 #4-U13061-S51 11-32528-DBA 3-Pin 6ft Micro Cordset (A-EBB) 3-Pin 12ft Micro Cordset (A-EBC) 1/2" NPT Cable Gland (A-GLD2)	1 1 2 1 1 2	
WL-UN02-11L	Insulated Safety Shower and Eyewash Station Kit w/ UL General Purpose Latching Switches #4-U13064-S61 11-32528-DBA 3-Pin 6ft Micro Cordset (A-EBB) 3-Pin 12ft Micro Cordset (A-EBC) 1/2" NPT Cable Gland (A-GLD2)	1 2 1 1 2	
WL-UN03-11L	Eyewash Station Kit w/ UL General Purpose Latching Switches #4-U13061-S51 11-32528-DBA 3-Pin 12ft Micro Cordset (A-EBC) 1/2" NPT Cable Gland (A-GLD2)	1 1 1 1	
WL-UN04-11L	Safety Shower Kit w/ UL General Purpose Latching Switches #4-U13060-S51 11-32528-DBA 3-Pin 6ft Micro Cordset (A-EBB) 1/2" NPT Cable Gland (A-GLD2)	1 1 1 1	
WL-UN12-11L	Safety Shower and Eyewash Station Kit w/ CSA General Purpose Latching Switches #4-U13060-S51 #4-U13061-S51 11-32527-DBD 3-Pin 6ft Micro Cordset (A-EBE) 3-Pin 12ft Micro Cordset (A-EBF) 1/2" NPT Cable Gland (A-GLD2)	1 1 2 1 1 2	
WL-UN13-11L	Insulated Safety Shower and Eyewash Station w/ CSA General Purpose Latching Switches #4-U13064-S61 11-32527-DBD 3-Pin 6ft Micro Cordset (A-EBE) 3-Pin 12ft Micro Cordset (A-EBF) 1/2" NPT Cable Gland (A-GLD2)	1 2 1 1 2	
WL-UN28-11L	Safety Shower and Eyewash Station w/ UL General Purpose Non-Latching Switches #4-U13060-S51 #4-U13061-S51 11-12528-DBA 3-Pin 6ft Micro Cordset (A-EBB) 3-Pin 12ft Micro Cordset (A-EBC) 1/2" NPT Cable Gland (A-GLD2)	1 1 2 1 1 2	

Wireless Safety Shower Mounting Kits

Model	Product Description	Quantity	Price
WL-UN05-11L	FM Intrinsically Safe 702 Wireless Transmitter 702DX32D1I5WA3WK1B4 WL-UN01-11L	1 1	
WL-UN06-11L	ATEX Intrinsically Safe 702 Wireless Transmitter 702DX32D1I1WA3WK1B4 WL-UN01-11L	1 1	
WL-UN07-11L	CSA Intrinsically Safe 702 Wireless Transmitter 702DX32D1I6WA3WK1B4 WL-UN12-11L	1 1	
WL-UN09-11L	FM Intrinsically Safe 702 Wireless Transmitter 702DX32D1I5WA3WK1B4 WL-UN02-11L	1 1	
WL-UN10-11L	FM Intrinsically Safe 702 Wireless Transmitter w/ Extended Antenna 702DX32D1I5WA3WM1B4 WL-UN02-11L	1 1	
WL-UN20-11L	FM Intrinsically Safe 702 Wireless Transmitter 702DX32D1I5WA3WK1B4 WL-UN03-11L	1 1	
WL-UN23-11L	FM Intrinsically Safe 702 Wireless Transmitter 702DX22D1I5WA3WK1B4 WL-UL28-11L	1 1	
WL-UN31-11L	FM Intrinsically Safe 702 Wireless Transmitter w/ CSA/FM Class I, Div 2 Latching Switches 702DX32D1I5WA3WK1B4 #4-U13061-S51 11-32526-A4	1 1 1	
WL-UN32-11L	FM Intrinsically Safe 702 Wireless Transmitter w/ CSA/FM Class I, Div 2 Latching Switches 702DX32D1I5WA3WK1B4 #4-U13061-S51 #4-U13060-S51 11-32526-A4	1 1 1 1	
WL-UN34-11L	FM Intrinsically Safe 702 Wireless Transmitter w/ Factory Configurable Date 702DX32D1I5WA3WK1B4C1 WL-UN05-11L	1 1	
WL-UN37-11L	FM Intrinsically Safe 702 Wireless Transmitter w/ High Gain Remote Antenna 702DX32D1I5WA3WN1B4 WL-UN01-11L	1 1	

Rosemount 1420 Network Gateway*

Model	Product Description	Base
1420	Smart Wireless Gateway	
Code	Power Input	Add
A	24 VDC Nominal (10.5-30 VDC)	
Code	Ethernet Communications - Physical Connection	Add
1	Ethernet	
2	Dual Ethernet	
Code	Code Wireless Update Rate, Operating Frequency and Protocol	Add
A3	User Configurable Update Rate, 2.4GHz DSSS, WirelessHART	
Code	Serial Communication	Add
N	None	
A	Modbus RTU via RS485	
Code	Ethernet Communication - Data Protocol	Add
2	Webserver, Modbus TCP/IP, AMS Ready	
4	Webserver, Modbus TCP/IP, AMS Ready, OPC	
5	DeltaV Ready	
6	Ovation Ready	
8	Webserver, EtherNet/IP, AMS Ready, HART-IP	
9	Webserver, EtherNet/IP, Modbus, TCP/IP, AMS Ready, HART-IP	
Code	Product Certifications	Add
N5	FM Division 2, Non-Incendive	
N6	CSA Division 2, Non-Incendive	
N1	ATEX Type n	
ND	ATEX Dust	
N7	IECEX Type n	
NF	IECEX Dust	
KD	FM & CSA Division 2, Non-incendive and ATEX Type N	
N3	China Type n	
N4	TIIS Type n	
NM	Technical Regulations Customs Union (EAC) Type n	
Code	Adapters	Add
J1	CM 20 Conduit Adapter	
J2	PG 13.5 Conduit Adapter	
J3	3/4 NPT Conduit Adapters	
Code	Antenna Options ⁽¹⁰⁾	Add
WL2	Remote Omni-Antenna Kit, 50ft (15.2m) cable, Lightning Arrestor	
WL3	Remote Omni-Antenna Kit, 20ft (6.1m) and 30ft (9.1m) cables, Lightning Arrestor	
WL4	Remote Omni-Antenna Kit, 10ft (3.0m) and 40ft (12.2m) cables, Lightning Arrestor	
WN2	High-gain, Remote Antenna kit, 25'(7.6m) cable, Lightning Arrestor	
Code	Redundancy Options	
RD	Gateway Redundancy	
Code	Advance Options	Add
RS	Radio Silence	
Typical Model Number: 1420 A 2 A3 A 2 N5		

*Standard options listed. For other, non-listed options, please contact your Topworx Sales Representative.

Rosemount 775 Smart Wireless THUM™ Adapter

Model	Product Description	Base
775	Smart Wireless THUM™ Adapter	
Code	Output	Base
X	Wireless	
Code	Housing	Base
D	Aluminum	
E	Stainless Steel	
Code	Mounting Connection	Add
1	1/2 - 14 NPT	
2	M20	
Code	PlantWeb Functionality	Add
1	HART Data	
Code	Certifications	Add
N1	ATEX Type N	
N2	INMETRO Type N	
N7	IECEX Type N	
I2	INMETRO Intrinsically Safe	
I3	China Intrinsically Safe	
I5	FM Intrinsically Safe, Non-incendive	
I6	CSA Intrinsically Safe	
I1	ATEX Intrinsically Safe	
I7	IECEX Intrinsically Safe	
NA	No Approval	
Code	Wireless Transmit Rate, Operating Frequency and Protocol	Add
WA3	User Configurable Burst Rate, 2.4GHz DSSS, WirelessHART	
Code	Wireless Antenna and SmartPower Options	Add
WK9	Long range, Integral Antenna, Power Scavenging	
Typical Model Number: 775XD11I5WA3WK9		

1410 Smart Wireless Gateway

Model	Product Description	Base
1410	Smart Wireless Gateway, 2.4GHz DSSS, Wireless HART, Webserver, AMS Ready, HART IP	
Code	Wireless Configuration	Add
A	24 VDC Nominal (10.5-30 VDC)	
B	100 Device Network (10.5-30 VDC)	
C	25 Device Network with 781 Field Link Support (10.5-30 VDC)	
D	100 Device Network with 781 Field Link Support (10.5-30 VDC)	
E	Device Network with 781 Field Link Support	
Code	Ethernet Communications - Physical Connection	Add
1	Single Ethernet Connection	
2	Dual Ethernet Connection	
Code	Serial Communication	Add
N	None	
A	Modbus RTU via RS485	
Code	Ethernet Communication - Data Protocols	Add
D1	Modbus TCP/IP	
D2	OPC	
D3	Ethernet/IP	
D4	Modbus TCP/IP, OPC	
D5	Ethernet/IP, Modbus TCP/IP	
D6	Ethernet/IP, OPC	
E2	Ovation Ready	
E3	Weserver Ready	
Code	Antenna Options	Add
WL0	SMA-to-N-Type Adapter Cable, External Antenna	
WX2	Basic Antenna	
WL2	SMA-to-N-Type Adapter Cable, and Remote Antenna Kit	
WN2	SMA-to-N-Type Adapter Cable, and High-Gain Remote Antenna Kit	
WNA	For use with 781 Remote Field Link	
Code	Product Certification	Add
NA	No Approvals	
N5	FM Division 2, Non-Incendive	
N6	CSA Division 2, Non-Incendive	
N1	ATEX Type n	
ND	ATEX Dust	
N7	IECEx Type n	
NF	IECEx Dust	
KD	FM & CSA Division 2, Non-incendive and ATEX Type N	
N3	China Type n	
N4	TIIS Type n	
Code	Host Integration	Add
R1	Emerson RTU (Control wave ROC Flow Boss)	
H1	Honeywell	
H2	Yokogawa	
H3	ABB	
H4	Siemens	
H5	Invensys	
H6	Allen Bradley	
Code	Oil & Gas Options	Add
G	Oil & Gas Interface	
Code	Redundancy Options	Add
RD	Gateway Redundancy	
Code	Advanced Options	Add
RS	Radio Silence	
Typical model number: 1410 A 2 A D4 WX2 N6		

Mounting Kits for Namur Actuators (DXP/DXR/DXS, K-Series, T-Series, GO Switches)

For ISO/Namur Quarter-Turn Actuators

Cast Brackets

Stainless Steel Brackets (DXP/DXR/DXS), K-Series

4N20080-G41S
4N30080-G41S
4N30130-G41S
4N50130-G41S

Aluminum

4N20080-G41A
4N30080-G41A
4N30130-G41A
4N50130-G41A

Stainless Steel

4N20080-G41SC

Stainless Steel (GO Switches)

4N20080-G__S
4N30080-G__S
4N30130-G__S
4N50130-G__S

T-Series mount directly to ISO/Namur 20 x 80 actuators.

Mounting Kits for Fisher 657/667* (GO™ Switch, DXP/DXR/DXS, T-Series)

	Applicable Switches	Part Number	GO™ Switch	DXP/DXR/DXS	T-Series*
FISHER 657 ACTUATORS					
657/667 Sizes 30, 34, 40, 45, 46, 56, 60, 70, (Stroke 3/4"- 4")	DXP/DXR/DXS	4-F09203-S24N			
	T-Series*	4-F09203-S2TL			
657 Size 30	20, 70	4-F09200-S2_			
657 Size 34	20, 70	4-F09205-S2_			
657 Size 40	20, 70	4-F09210-S2U			
657 Sizes 45 & 46	20, 70	4-F09215-S2U			
657 Sizes 50 & 60	20, 70	4-F09220-S2U			
657 Sizes 70 & 87	20, 70	4-F09225-S2U			
657 Size 80	20, 70	4-F09226-S2U			
FISHER 667 ACTUATORS					
657/667 Sizes 30, 34, 40, 45, 46, 56, 60, 70, 76 (Stroke 3/4"- 4")	DXP/DXR/DXS	4-F09203-S24N			
	T-Series*	4-F09203-S2TL			
667 Size 30	20, 70	4-F09300-S2U			
667 Size 34	20, 70	4-F09305-S2U			
667 Size 40	20, 70	4-F09310-S2U			
667 Sizes 45 & 46	20, 70	4-F09315-S2U			
667 Sizes 50 & 60	20, 70	4-F09320-S2U			
667 Size 70 & 76	20, 70	4-F09323-S2U			
667 Sizes 80 & 87	20, 70	4-F09325-S2U			

*Choose shaft option "L" in T-Series model number for linear applications.

How to Order

For ISO/Namur Quarter-Turn Actuators:

Example: 4N20080-G20S

Mounting Options

2 Q S = GO Switch Model 21
7 Q S = GO Switch Model 73,75, 7G and 7L
8 Q S = GO Switch Model 81
4 1 S = D Series (Stainless Steel Bracket)
4 1 A = D Series (Cast Aluminum Bracket)
4 1 SC = D Series (Cast Stainless Bracket 20 x 80 only)

For All Other Valves & Actuators:

Example: 4-B05521-S2_

Mounting Options:

2 = GO Switch Model 21
7 = GO Switch Model 73,75,7G and 7L
4 = D Series
4N = D Series w/ Namur Shaft
T = T Series w/ Namur Shaft (where applicable)
TL = T Series with Linear Shaft

Description	Applicable Products	Kit Numbers	List Price
ACTREG ACUATORS (NAMUR)			
A20, 40, 80, 130, 200, 300, 500, 850, 1200, & 1750	D Series 20,70, 80 Series	4N30080-G41S 4N30080-G__S	
AIR TORQUE ACTUATORS 'AT' SERIES (NAMUR)			
05,10, 20, 25, & 30	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
35 & 40	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
50, 60 & 70	D Series 20, 70, 80 Series	4N50130-D41S 4N50130-D__S	

Description	Applicable Products	Kit Numbers	List Price
AUTOMAX RACK & PINION ROTARY ACUATORS SUPERNOVA SERIES			
SNA050, 063, 085 & 100	D Series	4-N20080-G41S	
SNA115, 125, 150, 175 & 200	D Series	4N30130-G41S	
SN115, S125	D Series	4N30130-D41S	
S200	D Series	4N50130-D41S	
BAUMANN			
Size 32-70	D Series	4-B02052-S24N	
BETTIS CB/CBA/CBB SERIES ACTUATORS			
CB-315 & 415	D Series	4-B05015-S24	
	20, 70 Series	4-B05015-S2_	
CB-420 & 520	D Series	4-B05020-S24	
	20,70 Series	4-B05020-S2_	
CB-525 & 725	D Series	4-B05030-S24	
	20,70 Series	4-B05030-S2_	
BETTIS D SERIES (NAMUR)			
25, 40, 65, 100, 150, 200, & 350	D Series	4N20080-G41S	
	20, 70, & 80 Series	4N20080-G__ S	
600, 950, 1600	D Series	4N30130-G41S	
	20, 70, 80 Series	4N30130-G__ S	

Description	Applicable Products	Kit Numbers	List Price
BETTIS RPB & RPBQ SERIES RPB-250, 450, 1000, 2250, 5000 & 11000	D Series	4-B05250-S24	
BETTIS RPC SERIES (NAMUR) RPC-250/251, 450/451, 1000/1001, 2250/2251, 5000/5001, 11000/11001	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
BETTIS G SERIES (NAMUR) 1, 2, 3, 4, 5, 7, 8, 10, 13	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
BETTIS HD SERIES ROTARY ACTUATORS HD-521, 522 & 721 & 722	D Series 20, 70 Series	4-B05510-S24 4-B05510-S2_	
HD-731 & 732	D Series 20, 70 Series	4-B05520-S24 4-B05520-S2_	
BETTIS T SERIES ROTARY ACTUATORS T-3 & 4	D Series 20, 70 Series	4-B05310-S24 4-B05310-S2_	
T-5 & 8	D Series 20, 70 Series	4-B05320-S24 4-B05320-S2_	
CONBRACO ACTUATORS (NAMUR) CT-20-60, 30-60, 40-60, 50-60, 60-60	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
CT-70-60, 80-60	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
CT90-60	D Series 20, 70, 80 Series	4N50130-G41S 4N50130-G__S	

Description	Applicable Products	Kit Numbers	List Price
EL-O-MATIC RACK & PINION ACTUATORS E & P SERIES (NAMUR)			
E25, E40, E65, E100, E150, E350, P35, P60, P150, P280	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
P500, P750, P1100, P2500, P4000	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
EXEEO GEAR OPERATORS (SEE ROTORK) FIELD Q (NAMUR)			
Q40, Q65, Q100, Q150, Q200, Q350	D Series 20,70, 80 Series	4N20080-G41S 4N20080-G __S	
Q600, Q950, Q1600	D Series 20,70, 80 Series	4N30130-G41S 4N30130-G __S	
FISHER DIAPHRAGM ACTUATORS			
Types 57T & 555T	20, 70 Series	4-F09010-S2_	
FISHER 470 ACTUATORS			
470-40	D Series 20, 70 Series	4-F09030-S24N 4-F09030-S2_	
470, 471-46 & 60	D Series	4-F09035-S24N	
470, 471-80	D Series	4-F09040-S24N	
470, 471, 46-80 470, 471-100	70 Series D Series 20, 70 Series	4-F09041-S27 4-F09045-S24N 4-F09045-S2_	
470, 471-130	D Series 20, 70 Series	4-F09050-S24N 4-F09050-S2_	
472-100 (same as 657-70) 478-23 & 40 w/ 4-1/8" stroke 478-68	20, 70 Series 20, 70 Series 20 Series	4-F09225-S2U 4-F09055-S2_ 4-F09057-S22	
FISHER 585 PISTON ACTUATORS			
585 Size 100	D Series	4-F09140-S24N	
585C Size 25	70 Series D Series	4-F09140-S27 4-F09145-S24N	
585C Size 50	T Series 70 Series	4-F09145-S2TL 4-F09145-S27	
FISHER 655 ACTUATORS			
655-3B 655 Size 32	70 Series 70 Series	4-F09152-S27 4-F09153-S27	
FISHER 656 ACTUATORS (3/8" - 1" Dia. Valve Shaft)			
656 Size 30, 40 & 60	D Series 20, 70 Series	4-F09155-S24N 4-F09155-S2_	

Description	Applicable Products	Kit Numbers	List Price
FISHER 657 ACTUATORS			
657/667 Sizes 30, 34, 40, 45, 46, 56, 60, 70, (Stroke 1-4")	D Series	4-F09203-S24N	
657 Size 30	20, 70 Series	4-F09200-S2_	
657 Size 34	20, 70 Series	4-F09205-S2_	
657 Size 40	20, 70 Series	4-F09210-S2U	
657 Sizes 45 & 46	20, 70 Series	4-F09215-S2U	
657 Sizes 50 & 60	20, 70 Series	4-F09220-S2U	
657 Sizes 70 & 87	20, 70 Series	4-F09225-S2U	
657 Size 80	D Series 20, 70 Series	4-F09226-S24N 4-F09226-S2U	
FISHER 667 ACTUATORS			
657/667 Sizes 30, 34, 40, 45, 46, 56, 60, 70, 76 (Stroke 1-4")	D Series	4-F09203-S24N	
667 Size 30	20, 70 Series	4-F09300-S2U	
667 Size 34	20, 70 Series	4-F09305-S2U	
667 Size 40	20, 70 Series	4-F09310-S2U	
667 Sizes 45 & 46	20, 70 Series	4-F09315-S2U	
667 Sizes 50 & 60	20, 70 Series	4-F09320-S2U	
667 Size 70	20, 70 Series	4-F09323-S2U	
667 Sizes 80 & 87	20, 70 Series	4-F09325-S2U	
667 Size 80	D Series	4-F09325-S24N	
FISHER 1008			
1008 Size 30, 40, 50	70 Series	4-F09350-S27	

Description	Applicable Products	Kit Numbers	List Price
FISHER 1032 ROTARY ACTUATORS (NAMUR)			
1032-45,70,130,185,280,425,680	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
1032-1125,1370,2585,4580	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
FISHER 1035 ROTARY ACTUATORS (NAMUR)			
1035-E25, E40,E65, E100, E200, & E350	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
1035-P500, P750, P1100, P2500, & P4000	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
FISHER 1051, 1052 & 1061 ROTARY ACTUATORS			
1051 & 1052 Size 20	D Series T Series	4-F09400-S24 4-F09400-S2T	
1051 & 1052 Size 33	D Series T Series 20, 70 Series	4-F09420-S24 4-F09420-S2T 4-F09420-S2_	
1051, 1052 & 1061 Sizes 30, 40, 60, 68 & 70	D Series T Series 20, 70 Series	4-F09450-S24 4-F09450-S2T 4-F09450-S2_	
1061 Sizes 80 & 100	D Series T Series	4-F09460-S24 4-F09460-S2T	
FISHER 1066 ROTARY ACTUATORS			
1066 Sizes 20 & 27 w/ 1/2" & 5/8" valve shafts	D-Series 20, 70 Series	4-F09480-S24 4-F09480-S2_	

Description	Applicable Products	Kit Numbers	List Price
FISHER 1077 MANUAL HANDWHEEL ROTARY ACTUATORS			
1077-6M	D Series 20, 70 Series	4-F09565-S24 4-F09565-S2_	
1077-7M	D Series	4-F09575-S24	
1077-9M	20, 70 Series	4-F09580-S2_	
1077-10M	20, 70 Series	4-F09585-S2_	
FISHER 1078 AAA MANUAL ACTUATORS			
1078-B	D Series T Series 20, 70 Series	4-F09597-S24 4-F09597-S2T 4-F09597-S2_	
1078-C	D Series T Series	4-F09600-S24 4-F09600-S2T	
1078-D	D Series 20, 70 Series	4-F09599-S24 4-F09599-S2_	
1078-1A	D Series T Series 20, 70 Series	4-F09571-S24 4-F09571-S2T 4-F09571-S2_	
FISHER 2052 ACTUATORS			
Size 1	D Series T Series 20, 70 Series	4-F09451-S24 4-F09451-S2T 4-F09451-S2_	
Size 2	D Series T Series 20, 70 Series	4-F09452-S24 4-F09452-S2T 4-F09452-S2_	

Description	Applicable Products	Kit Numbers	List Price
FISHER 2052 ACTUATORS Size 3	D Series T Series 20, 70 Series	4-F09454-S24 4-F09454-S2T 4-F09454-S2_	
FISHER 3710 POSITIONER	D Series	4-F09710-S24	
FISHER D4 ACTUATORS Size 40 (w/ 3/4" travel) Size 40 (w/ 3/4" travel)	D Series 70 Series	4-F09242-S24N 4-F09242-S27	
FISHER GX ACTUATORS Size 225, 750 & 1200	D Series T Series 70 Series	4-F09240-S24N 4-F09240-S2TL 4-F09240-S27	
GENERAL TORQUE (SEE KTM)			
GRINNEL ROTARY ACTUATORS (NAMUR) Size 2, 4, 8, 12, 20, 35 Size 55, 70, 100, 150	D Series 20, 70, 80 Series D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S 4N30130-G41S 4N30130-G__S	
HYTORK ACTUATORS (NAMUR) XL-45,70,130,185,280,425,680 XL-1125,1370,2585,4580	D Series 20, 70, 80 Series D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S 4N30130-G41S 4N30130-G__S	

Description	Applicable Products	Kit Numbers	List Price
JAMESBURY RACK & PINION ACTUATORS			
SP25, 50, SP6SR60, SP9SR80, SP8SR40, SP13SR60, SP18SR80	D Series	4-N05310-S24	
SP100, 200, SP18SR40, SP26SR60, SP36SR80, SP52SR60, SP72SR80	D Series	4-N05320-S24	
JAMESBURY QUADRA-POWR & QUADRA-POWR II ACTUATORS			
B (Size 30, 40, 50, 60S) QP 1M & 2M	D Series	4-N05310-S24	
C (Size 30, 40, 50, 60S) QP 3M	D Series	4-N05320-S24	
JAMESBURY VANE ACTUATORS			
V60	D Series	4-N05310-S24	
V150	D Series	4-N05320-S24	
JAMESBURY ACTUATORS (NAMUR)			
VP-02, 04	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
VP-08, 10	D Series 20, 70, 80 Series	4N30080-G41S 4N30080-G__S	
VP-12, 14, 22	D Series 20, 70, 80 Series	4N50130-G41S 4N50130-G__S	
KEYSTONE 79U/79E			
006, 012	D Series	4-K05006-S24	
024, 036, 065, 066, 090, 091, 180, 181	D Series	4-K05024-S24	
KINETROL VANE ACTUATORS			
029 w/ SAE hardware	D Series	4-K10029-S24	
039 w/ SAE hardware	D Series	4-K10039-S24	
059 w/ SAE hardware	D Series	4-K10059-S24	
079 w/ SAE hardware	D Series	4-K10079-S24	
089 w/ SAE hardware	D Series	4-K10089-S24	
099 w/ SAE hardware	D Series	4-K10099-S24	
109 w/ SAE hardware	D Series	4-K10109-S24	
129 w/ SAE hardware	D Series	4-K10129-S24	
149 w/ SAE hardware	D Series	4-K10149-S24	
169 w/ SAE hardware	D Series	4-K10169-S24	
209-100 w/ SAE hardware	D Series	4-K10209-S24	
MASONEILAN-DRESSER CAMFLEX II ACTUATORS			
Actuator size 4-1/2 for valve sizes 1, 1-1/2, 2	D Series 70 Series	4-M02120-S24 4-M02120-S27	
Actuator size 6 for valve sizes 3" & 4"			
MASONEILAN-DRESSER DIAPHRAGM ACTUATORS MODELS 37 & 38			
37/38 Sizes 11 & 13	D Series 20, 70 Series	4-M02210-S24N 4-M02210-S2__	
37/38 Sizes 15 & 18	D Series 20, 70 Series	4-M02220-S24N 4-M02220-S2__	
MARWIN CONTROLS (NAMUR)			
52/UT-O, 63/UT-1, 85/UT-2.5	D Series 20, 70, 80 Series	4N30080-G41S 4N30080-G__S	

Description	Applicable Products	Kit Numbers	List Price
NELES CONTROLS CYLINDER ACTUATORS			
MODELS BC & BJ			
Sizes 8, 9 & 10	D Series 20, 70 Series	4-N05410-S24 4-N05410-S2_	
Sizes 12 & 16	D Series 20, 70 Series	4-N05415-S24 4-N05415-S2_	
Size 20	D Series 20, 70 Series	4-N05420-S24 4-N05420-S2_	
Size 25	D Series 20, 70 Series	4-N05425-S24 4-N05425-S2_	
Size 32	D Series 20, 70 Series	4-N05430-S24 4-N05430-S2_	
Size 40	D Series	4-N05435-S24	
ORBIT PISTON ACTUATORS			
LG & LS SERIES			
124D	20, 70 Series	4-O18005-S2_	
185D4, 14, 20, 23	20, 70 Series	4-O18010-S2_	
185D5	20, 70 Series	4-O18015-S2_	
205D5 & 6	20, 70 Series	4-O18020-S2_	
206	20, 70 Series	4-O18025-S2_	
266	20, 70 Series	4-O18030-S2_	
ORBIT DIAPHRAGM ACTUATORS			
80100, 80625, 160100, 160625 & 1601125	20, 70 Series	4-O18040-S2_	
Series 84, 164 & 165, 84100, 10084, 164100, 100164, 100165 & 100167	20, 70 Series	4-O18050-S2_	
84625, 164625, 62584, 625164 & 625165	20, 70 Series	4-O18060-S2_	
316ss mounting kits; require D Series w/ 45° indicator and Namur shaft			
LS-269-D-32	D Series	4-O18R65-M24N	
LS-267-D-15	D Series	4-O18R66-M24N	
LS-205-D-26-X-S	D Series	4-O18R67-M24N	
LS-208-D-31	D Series	4-O18R68-M24N	
LS-205-D5/D15	D Series	4-O18R69-M24N	
84625 (also listed above)	D Series	4-O18R70-M24N	
164100 size 3 (also listed above)	D Series	4-O18R71-M24N	
LS-124-D2, D12, D21, D22	D Series	4-O18R72-M24N	
LS-205-D-6, D16	D Series	4-O18R73-M24N	
ORBIT DIAPHRAGM ACTUATORS			
LS-185-D5, D15	D Series	4-O18R75-M24N	
LS-185-D4, D14	D Series	4-O18R76-M24N	
LS/LG-2611-T-29	D Series	4-O18R77-M24N	
LS-207-D19/LS-267-D19	D Series	4-O18R78-M24N	
LS-267-D16	D Series	4-O18R79-M24N	
LS-4214-D-33	D Series	4-O18R81-M24N	
PROTECH ACTUATORS (NAMUR)			
100, 200, 250, 260, & 300	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
400 & 500	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	

Description	Applicable Products	Kit Numbers	List Price
ROTORK SP RANGE PNEUMATIC ACTUATORS			
40	D Series T Series 20, 70, 80 Series	4-B05015-S24 4-B05015-S2T 4-B05015-S2_	
50	D Series T Series 20, 70, 80 Series	4-B05020-S24 4-B05020-S2T 4-B05020-S2_	
ROTORK SP RANGE PNEUMATIC ACTUATORS			
70	D Series T Series 20, 70, 80 Series	4-B05030-S24 4-B05030-S2T 4-B05030-S2_	
TRIAC ACTUATORS (NAMUR)			
TR-20, 40, 80, 130, 200	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
TR-500, 850, 1200, 1750	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
UNITORQ ACTUATORS (NAMUR)			
M10, 20, 30, 52, 73, 103, 148, 222, & 295	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
M586, 1213, 2366, 2958, & 4200	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
WORCESTER CONTROLS PNEUMATIC ACTUATORS			
Series 34 - Sizes A & B	D Series 20, 70 Series	4-W15340-S24 4-W15340-S2_	
WORCESTER CONTROLS 39/R6 SERIES (NAMUR)			
1039/R6, 1539/R6, & 2039/R6	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
2539/R6, 3039/R6, 3339/R6 & 3539/R6	D Series 20, 70, 80 Series	4N30080-G41S 4N30080-G__S	
4039/R6 & 4239/R6	D Series 20, 70, 80 Series	4N50130-G41S 4N50130-G__S	
XOMOX MATRYX (E & P SERIES NAMUR)			
E25, 40, 65, 100, 200, 350	D Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__S	
E600, 950, 1600	D Series 20, 70, 80 Series	4N30080-G41S 4N30080-G__S	
P500, 750, 1100, 2500, 4000	D Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__S	
XOMOX MATRYX PISTON ACTUATORS			
26051, 26061, 26062, 26071, 26081, 26002 33071, 33081, 33082, 33101, 33102, 33121 45102, 45121, 45122, 45141, 45161	D Series D Series D Series	4-X15110-S24 4-X15120-S24 4-X15130-S24	
XOMOX XRP Rack and Pinion Actuators			
XS006, XS012, XS025, XS050	D-Series 20, 70, 80 Series	4N20080-G41S 4N20080-G__5	
XS090, XS130, XS180, XS205 XS380, XS630	D-Series 20, 70, 80 Series	4N30130-G41S 4N30130-G__5	

TERMS AND CONDITIONS OF SALE

EXHIBIT C

These terms and conditions, the attendant quotation or acknowledgment, and all documents incorporated by reference therein, binds TopWorx, Inc. hereinafter the Seller, and the buyer, hereinafter Buyer, and constitutes the entire agreement (Agreement) between Buyer and Seller for the provision of services (Services) and/or the sale of goods (Goods) including (except as provided in Section 10) firmware incorporated therein.

1. **PRICES:** Unless otherwise specified by Seller, Seller's price for the Goods and/or Services shall remain in effect for thirty (30) days after the date of Seller's quotation or acceptance of the order for the Goods/Services, whichever is delivered first, provided an unconditional, complete authorization for the immediate manufacture and shipment of the Goods and/or provision of Services pursuant to Seller's standard order processing procedures is received and accepted by Seller within such time period. If such authorization is not received by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Goods/Services to Seller's price in effect for the Goods/Services at the time the order is released to final manufacture. Prices for Goods do not cover storing, installing, starting up or maintaining Goods unless expressly stated in Seller's quotation. Notwithstanding the foregoing, the price for Goods/Services sold by Seller, but manufactured by others, shall be Seller's price in effect at the time of shipment to Buyer.

2. **DELIVERY, ORDER ACCEPTANCE AND DOCUMENTATION:** All shipping dates are approximate and are based upon Seller's prompt receipt of all necessary information from Buyer to properly process the order. Notwithstanding any provisions to the contrary in this or other documents related to this transaction, and regardless of how price was quoted, whether FOB, FAS, CIF or otherwise, legal title to the Goods and risk of loss thereto shall transfer to Buyer as follows: for sales in which the end destination of the Goods is within the United States, upon delivery to the freight carrier at the shipping point; for sales in which the end destination of the Goods is outside of the United States, immediately after the Goods have passed beyond the territorial limits of the United States. Seller shall provide Buyer with that data/documentation which is specifically identified in the quotation. If additional copies of data/documentation or non-standard data/documentation are to be provided by Seller, they shall be provided to Buyer at Seller's price then in effect. Data/documentation marked as confidential or proprietary may not be reproduced or used for any purpose other than the purpose for which it was provided and may not be disclosed to third parties without the prior written permission of Seller.

3. **EXCUSE OF PERFORMANCE:** Seller shall not be liable for delays in performance or for non-performance due to failure or interruption of computer or telecommunication systems, acts of God, war, riot, fire, terrorism, labor trouble, unavailability of materials or components, explosion, accident, compliance with governmental requests, laws, regulations, orders or actions, or other unforeseen circumstances or causes beyond Seller's reasonable control. In the event of such delay, the time for performance or delivery shall be extended by a period of time reasonably necessary to overcome the effect of the delay.

4. **TERMINATION AND SUSPENSION BY BUYER:** Buyer may terminate or suspend its order for any or all of the Goods/Services covered by the Agreement provided that Buyer gives Seller reasonable advance written notice of such termination or suspension and reimburses Seller for all losses, damages, costs and expenses arising from such termination or suspension.

5. **LIMITED WARRANTY:** Subject to the limitations contained in Section 6 herein, Seller warrants that the licensed firmware embodied in the Goods will execute the programming instructions provided by Seller, and that the Goods manufactured or Services provided by Seller will be free from defects in materials or workmanship under normal use and care. The foregoing warranties will apply until the expiration of the applicable warranty period. All other Goods are warranted for twelve (12) months from the date of shipment by Seller. Consumables and Services are warranted for a period of 90 days from the date of shipment or completion of the Services. Products purchased by Seller from a third party for resale to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. Buyer agrees that Seller has no liability for Resale Products beyond making a reasonable commercial effort to arrange for procurement and shipping of the Resale Products. If Buyer discovers any warranty defects and notifies Seller thereof in writing during the applicable warranty period, Seller shall, at its option, correct any errors that are found by Seller in the firmware or Services or repair or replace F.O.B. point of manufacture that portion of the Goods or firmware found by Seller to be defective, or refund the purchase price of the defective portion of the Goods/Services. All replacements or repairs necessitated by inadequate maintenance, normal wear and usage, unsuitable power sources or environmental conditions, accident, misuse, improper installation, modification, repair, use of unauthorized replacement parts, storage or handling, or any other cause not the fault of Seller are not covered by this limited warranty, and shall be at Buyer's expense. Seller shall not be obligated to pay any costs or charges incurred by Buyer or any other party except as may be agreed upon in writing in advance by Seller. All costs of dismantling, reinstallation and freight and the time and expenses of Seller's personnel and representatives for site travel and diagnosis under this warranty clause shall be borne by Buyer unless accepted in writing by Seller. Goods repaired and parts replaced by Seller during the warranty period shall be in warranty for the remainder of the original warranty period or ninety (90) days, whichever is longer. This limited warranty is the only warranty made by Seller and can be amended only in a writing signed by Seller. THE WARRANTIES AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE. THERE ARE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR ANY OTHER MATTER WITH RESPECT TO ANY OF THE GOODS OR SERVICES.

6. **LIMITATION OF REMEDY AND LIABILITY:** SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE. THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE TO BUYER OF THE SPECIFIC GOODS MANUFACTURED OR SERVICES PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. THE TERM "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF ANTICIPATED PROFITS, REVENUE OR USE AND COSTS INCURRED INCLUDING WITHOUT LIMITATION FOR CAPITAL, FUEL AND POWER, AND CLAIMS OF BUYER'S CUSTOMERS.

7. **PATENTS:** Subject to the limitations contained in Section 6, Seller shall defend any suits brought against Buyer based on a claim that use of the Goods manufactured by Seller constitutes an infringement of a valid patent of the United States, and shall pay any damages awarded therein against Buyer, provided that Buyer: promptly notifies Seller in writing of the filing of such suit or the threat thereof; permits Seller to control completely the defense or compromise of such claim of infringement; and provides all reasonable assistance and cooperation requested by Seller for the defense of such suit. In the event that only the Goods manufactured by Seller are held to be infringing in such suit and their use is enjoined, Seller shall, at its sole option and expense, provide a commercially reasonable alternative, including, but not limited to, procuring for Buyer the right to continue using the Goods, replacing them with a non-infringing product or modifying them so they become non-infringing. Buyer agrees that Seller shall not be liable for infringement, and that Buyer shall fully indemnify Seller therefore, if infringement is based upon the use of Goods in connection with goods not manufactured by Seller or in a manner for which the Goods were not designed by the Seller or if the Goods were not designed by the Seller or if the Goods were designed by the Buyer or were modified by or for the Buyer in a manner to cause them to become infringing.

8. **TAXES:** Any tax or governmental charge payable by the Seller because of the manufacture, sale or delivery of the Goods, or provision of Services, may at Seller's option be added to the price herein specified. The foregoing shall not apply to taxes based upon Seller's net income.

9. **TERMS OF PAYMENT:** Subject to the approval of Seller's Credit Department, terms are F.O.B. shipping point, net 30 days from date of Seller's invoice in U.S. currency, except for applicable milestone payments covered below or export shipments for which Seller may require other arrangements. Freight charges may include shipping and handling charges, and Buyer shall pay all such charges. If any payment owed to Seller hereunder is not paid when due, it shall bear interest at a rate 1-1/2% per month interest from the date on which it is due until it is received and future shipments may be placed on hold. Seller shall have the right, among other remedies, either to terminate the Agreement or to suspend further deliveries under this and/or other agreements with Buyer in the event Buyer fails to make any payment hereunder when due. Buyer shall be liable for all expenses attendant to collection of past due amounts, including attorneys' fees. Unless otherwise provided in Seller's written quotation, periodic milestone payments shall be made by Buyer when the purchase price of this Agreement exceeds \$100,000. In such cases, invoices shall be issued by Seller and paid by Buyer based on the following milestones: Milestone 1: 30% of price upon acceptance of order by Seller. Milestone 2: 30% of price upon release by Seller of approved bills of material to manufacturing for assembly. Milestone 3: 40% of price upon shipment of the Goods by Seller. Seller reserves the right to designate additional Milestones where the Agreement provides for Services in excess of \$50,000.

10. **SOFTWARE AND FIRMWARE:** Notwithstanding any other provision herein to the contrary, Seller or applicable third party owner shall retain all rights of ownership and title in its respective firmware and software, including all copyrights relating to such firmware and software and all copies of such firmware and software. Except as otherwise provided herein, Buyer is hereby granted a nonexclusive, royalty free license to use firmware and software, and copies of firmware and software, incorporated into the Goods only in conjunction with such Goods and only at the Buyer's plant site where the Goods are first used. Buyer may negotiate with Seller separate licenses to use such copies and firmware and software at other plant sites. Buyer's use of certain firmware (as specified by Seller) and all other software shall be governed exclusively by Seller's and/or third party owner's applicable license terms.

11. **BUYER SUPPLIED DATA:** To the extent that Seller has relied upon any specifications, information, representation of operating conditions or other data or information supplied by Buyer to Seller ("Data") in the selection or design of the Goods and/or provision of the Services and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer and relied upon by Seller, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

12. **EXPORT/IMPORT:** Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which items may be supplied will apply to its receipt and use of Goods and Services. In no event shall Buyer use, transfer, release, import, export, or re-export Goods in violation of such applicable laws, regulations, orders, or requirements.

13. **GENERAL PROVISIONS:** (a) Buyer shall not assign its rights or obligations under the Agreement without Seller's prior written consent; (b) there are no understandings, agreements or representations, express or implied, not specified in the Agreement; (c) no action, regardless of form, arising out of transactions under the Agreement, may be brought by either party more than two years after the cause of action has accrued; (d) any modification of these terms and conditions must be set forth in a written instrument signed by a duly authorized representative of Seller; (e) the Agreement is formed and shall be construed, performed and enforced under the laws of the State of Missouri (however, Buyer and Seller agree that the proper venue for all actions arising under the Agreement shall be only in the State where the Goods involved in such actions were manufactured; (f) The 1980 United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement; (g) If any provision of the Agreement is invalid under any statute or rule of law, such provision, to that extent only, shall be deemed to be omitted without affecting the validity of the remainder of the Agreement; (h) Seller specifically objects to the application of any Federal Acquisition Regulation ("FAR") or other governmental procurement provision or clause to the Agreement; (i) UNLESS OTHERWISE SPECIFICALLY PROVIDED IN SELLER'S QUOTATION, GOODS AND SERVICES HEREUNDER ARE NOT INTENDED FOR USE IN ANY NUCLEAR OR NUCLEAR RELATED APPLICATIONS. Buyer (i) accepts Goods and Services in accordance with the restriction set forth in the immediately preceding sentence, (ii) agrees to communicate such restriction in writing to any and all subsequent purchasers or users and (iii) agrees to defend, indemnify and hold harmless Seller from any and all claims, losses, liabilities, suits, judgments and damages, including incidental and consequential damages, arising from use of Goods and Services in any nuclear or nuclear related applications, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability; (j) The rights, remedies and protections afforded to Seller under this Agreement, including but not limited to indemnification of Seller, limitation of remedy and liability and limited warranty shall extend to Seller and to its affiliates, subsidiaries, or related companies performing or supplying work, services, or products under this Agreement or any agreement into which it is incorporated by reference; and (k) Seller does not agree to: (i) indemnify Buyer; or (ii) name Buyer as an additional insured.



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