



## Quartz

## Explosionproof valve monitoring

The Quartz is available in explosionproof (QX), nonincendive, intrinsically safe (QN), and general purpose (QG) versions. The robust epoxy-coated anodized aluminum construction, and optional stainless steel version, makes this platform extremely durable and well-suited for use in corrosive, heavy washdown environments.

Options may be selected to accommodate most applications.

## The Quartz series

The StoneL Quartz series is durable, corrosion-resistant, and versatile, making it ideal for most of your process valve monitoring requirements.

#### **Enclosures optimized for environment**



**QX**: Explosionproof, water tight and corrosion-resistant enclosure is approved for use in Div. 1/Zone 1 hazardous areas. Available options include stainless steel and epoxy-coated anodized aluminum.



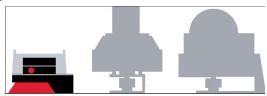
**QN**: Nonincendive is approved for Div. 2/Zone 2 hazardous environments with proximity sensors using a clear cover. Intrinsically safe NAMUR sensors or passive switches are available for Div. 1/Zone 0 applications.



**QG**: General purpose features a clear Lexan® cover with mechanical switches. All enclosures are rated NEMA 4, 4x, and 6.

#### Save space with low profile design

Clearance above the actuator is critical in complex piping systems. Quartz boldly displays valve position and encloses all electrical components in an explosion proof compartment with less than 5" clearance requirement.



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## **Features**

#### 1. Enclosures optimized for environment

Available in three enclosure styles suitable for use in various process environment areas.

#### 2. Rapid enclosure access

Screw-on cover allows quick enclosure access, saving you valuable maintenance and set-up time. The cover provides a vaportight seal and allows entry to internal components in less than five seconds.

#### Faster wiring

Pre-wired and labeled terminal strip enables quick, convenient attachment of field wires.

#### 4. Wide variety of switching & communication

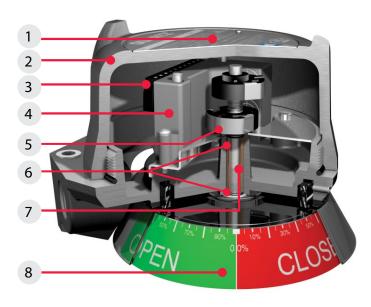
Switching options include dual module sensors and communication, Maxx-Guard proximity switches, and mechanical switches. Continuous signal output is available in a 4 to 20 mA position transmitter.

#### 5. Quick set cams are easy to adjust

Touch and tune switch settings allow you to make adjustments in seconds without the use of tools.

#### 6. Dual shaft o-ring seals eliminate corrosion

Top inner and bottom outer shaft o-rings seal the drive bushing from both external corrosives and internal contaminants that enter the enclosure



#### 7. Special drive bushing assures long cycle life

The oil impregnated bronze bushing maintains smooth operation and eliminates the potential for shaft seizure due to actuator shaft eccentricity.

#### 8. Space saving visual indication

Visual indicator offers excellent viewability without sacrificing accessibility or adding to space requirements. Indicators are also available with continuous percentage or three-way indication. (See page 49)

#### Wide variety of switch/sensor functions

A wide variety of switch/sensor communications and position transmitters may be selected for the Quartz series. Options include 2, 4 or 6 mechanical or proximity switches, position transmitters with or without switches, and the StoneL dual module with two SST or



Proximity switches



Mechanical switches

two NAMUR sensors or AS-Interface, DeviceNet or Foundation Fieldbus communication capabilities.

#### **Speed installation with LED indication**

StoneL's coordinated visual indicator and LEDs give you an extra measure of safety and increased convenience during plant start-up and operation. Green visual indication and green LED means the valve is open and the computer circuit is properly operating. Red

visual indication and red LED means the valve is closed and the computer is properly matched. All systems are functioning properly.





#### Eliminate seal fittings in Division 1 and 2 areas

FMus ratings certify the Quartz QX series with proximity switches for use without seal fittings in all hazardous areas. By passing special pressure piling tests, the all aluminum enclosure was certified for this elite distinction. Now, a time-consuming procedure can be safely eliminated in Division 1 and Division 2 areas.

#### **Consolidate your components** and minimize costs

The Quartz design offers up to three conduit entries with extra wire terminations. By terminating solenoid valves in the switch enclosure, significant savings are realized by eliminating a junction box, wiring, conduit materials, and labor.



## Quartz Stainless Steel option





#### For the most challenging environments

The explosion proof Quartz for process valve monitoring is available with a 316 stainless steel enclosure that is extremely durable and well-suited for use in corrosive, heavy washdown and high seas environments. A broad range of switching, position transmitters and communication options may be selected to accommodate most applications. You can attach the Quartz to quarter-turn actuators, manual operators, linear operators, and positioners using readily available stainless steel mounting systems.







## **Quartz Expeditor**



Enables automated on/off valves to be used for flow dampening, fill control and partial stroke testing applications. In combination with two solenoid valves, the intermediate switch may be used to stop the on/off valve in mid-stroke. This option is also available with DeviceNet (82) and AS-Interface (86) protocols.





## Available in short, medium and tall cover versions.

## Mounting kits

All StoneL kits are stainless steel. Kits can also be ordered 316 stainless steel available. For all 316 mounting kits consult StoneL.

#### **Quarter-turn actuators**

Low profile convenient mounting systems are readily available in stainless steel for most non-NAMUR and NAMUR (VDI/VDE 3845) actuators.



#### **Manual valves**

Proper fit and operation is assured with StoneL's custom designs for each manual valve. Hundreds of unique mounting systems have been designed and fabricated for manually operated valves.



#### **Positioners**

Quartz position transmitter and switches may be retrofitted directly to most positioners. 4 to 20 feedback may be provided on simple pneumatic positioners.



#### **Linear operators**

Precision ball joint connections attach the Quartz to valve travel stems. Stroke lengths ranging from 20 mm to 150 mm (¾" to 6") may be easily accommodated.



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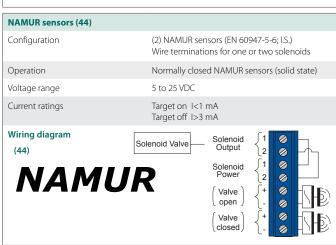
## Sensors and communications

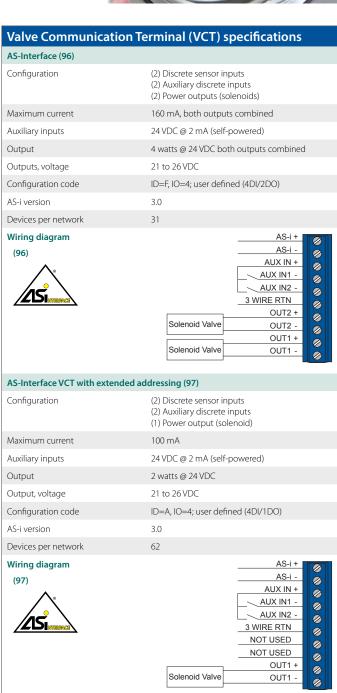
#### **Dual module system**

The Quartz series is available with the dual module in its various configurations. Two solid state sensors and/or communications and other electronics are sealed in for the ultimate in reliability and convenience. All dual module versions have a five year warranty.

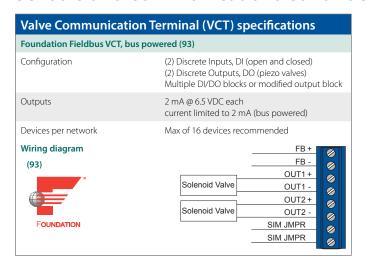


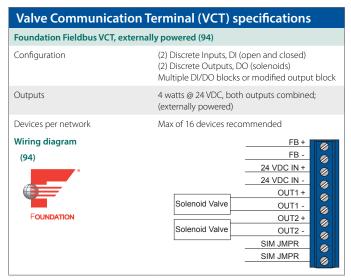
Switching and sensor (33)	rspecifications
Configuration	(2) SST solid state sensors Wire terminations for one or two solenoids
Operation	NO/NC (cam selectable)
Maximum current inrush	2.0 amps @ 125 VAC/VDC
Maximum current continuous	0.3 amps @ 125 VAC/VDC
Minimum on current	2.0 mA
Maximum leakage current	0.5 mA
Voltage range	8 to 125 VDC 24 to 125 VAC
Maximum voltage drop	6.5 volts @ 10 mA 7.0 volts @ 100 mA
Wiring diagram (33)  SST	Solenoid Valve  Solenoid Output 2  Solenoid 1 Power 2  Valve Open Common Valve Closed Common





## Sensors and communications continued





## Piezo ultra low power valve for use with (93) bus powered Foundation Fieldbus

Use either the 0.5 Cv or the 1.3 Cv NAMUR mount pneumatic valve with StoneL Foundation Fieldbus bus powered VCTs. These are ultra low power valves that use piezo technology to actuate, utilizing less than 2 mA @ 6.5 VDC to operate either device. Both of these five-way two-position, spring return pneumatic valves are designed to meet the NAMUR standards for actuator pad mount solenoid valves.





Piezo specifications					
0.5 Cv and 1.3 Cv models					
Configuration	Piezo operated 5-way spool valve, 2-position, spring return				
Operating pressure	36 to 120 psi (2.5 to 7.5 bar)				
Media	Dried/filtered air (30 micron)				
Operating life	1 million cycles				
Operating temperature	-10° to 60°C (14° to 140°F)				
DC coil power	2 mA @ 6.5 VDC				
Operating voltage	5.5 to 9 VDC				
Mounting	2 screws (M5) per NAMUR standards				
Connection	Plug to DIN 43650B				
Electrical protection	Ex ia IICT6				
NAMUR mount 0.5 Cv (ST443015)					
Flow rating	Cv - 0.5 (Kv - 7.1)				
Manifold porting	G 1/8" (BSP)				
Exhaust porting	G 1/8" (BSP)				
NAMUR mount 1.3 Cv (ST443016)					
Flow rating	Cv - 1.3 (Kv - 18.5)				
Manifold porting	G ¼" (BSP)				
Exhaust porting	G ¼" (BSP)				
	513				

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## Sensors and communications

DeviceNet (92)	
Configuration	<ul><li>(2) Discrete inputs (open and closed)</li><li>(2) Power outputs (solenoids)</li><li>(1) 4-20 mA auxiliary analog input, 10-bit resolution; no additional power source requirec</li></ul>
Transmission rate	Software selectable 125K, 250K or 500K baud
Messaging	Polling, cyclic and change of state
Outputs	4 watts @ 24 VDC outputs combined
Outputs, voltage	24 VDC (with input voltage ranging from 10 to 24 VDC)
Other features	Predetermined output fail state
wiring diagram (92) <b>DeviceNet</b>	DeviceNet Bus  CAN H SHIELD CAN L V- Ain - Ain + Transmitter  Solenoid Valve  Solenoid Valve  Solenoid Valve  OUT1 - OUT2 - OUT2 -

Modbus (95)	
Configuration	<ul><li>(2) Discrete inputs (open and closed)</li><li>(2) Power outputs (solenoids)</li><li>(1) 4-20 mA auxiliary input, 10-bit resolution</li></ul>
Analog input impedance	250 Ω
Outputs	4 watts @ 24 VDC both outputs combined
Outputs, voltage	24 VDC (with input voltage ranging from 10 to 24 VDC)
Transmission rate	Software selectable for 9.6, 19.6 or 38.4 kbits/sec
Transmission mode	RTU (Remote Terminal Unit)
Other features	Predetermined output fail state
Wiring diagram (95) MODBUS	Modbus Bus + Bus - Ain + Ain - Aransmitter  Solenoid Valve  OUT2 + OUT2 - OUT2 -

## Position transmitter

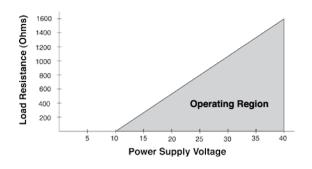
#### 4 to 20 mA position transmitter

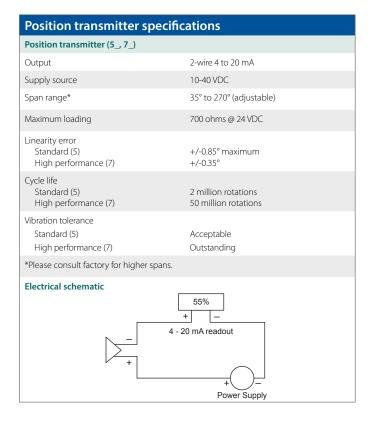
Position transmitters provide a precise 4 to 20 mA signal on a two-wire

DC loop. Control valves and dampers are accurately monitored through their range of travel offering assurance of exact valve position at all times. Select a standard potentiometer or a vibration proof, high-performance potentiometer on your position transmitter.



#### **Load curve**





## Sensors and switches

#### **Maxx-Guard proximity switch**

Maxx-Guard hermetically-sealed switches are suitable for computer input circuits and general purpose applications. SPDT tungsten contacts are designed for 125 VAC computer inputs and 240 VAC moderate power applications. SPDT rhodium contacts are suitable for both 24 VDC and 120 VAC computer inputs. SPST ruthenium contacts are ideal for either 24 VDC or 125 VAC low power computer inputs.



Maxx-Guard proximity switch Single-Pole Single-Throw (SPST)					
J switch					
Configuration	SPST; passive (intrinsically safe)				
Electrical ratings	0.10 amp @ 10 to 30 VDC				
Maximum voltage drop	0.1 volts @ 10 mA 0.5 volts @ 100 mA				
Contact composition	Ruthenium				
P switch					
Configuration	SPST				
Electrical ratings	0.15 amp @ 30 VDC/125 VAC				
Maximum voltage drop	0.1 volts @ 10 mA 0.5 volts @ 100 mA				
Contact composition	Ruthenium				
C•	PST • NO				

Specifications	
Temperature range	-40° C to 80° C (-40° F to 176° F)
Seal	Hermetically-sealed
Operating life	5 million cycles
Warranty	Two years

G switch	
Configuration	SPDT
Electrical ratings	0.30 amp @ 24 VDC 0.2 amp @ 120 VAC
Maximum voltage drop	0.1 volts @ 10 mA 0.5 volts @ 100 mA
Contact composition	Rhodium
H switch	
Configuration	SPDT
Electrical ratings	240 VAC max; 3 amp max 100 watts max; 2.0 watts min
Maximum voltage drop	0.1 volts @ 10 mA 0.5 volts @ 100 mA
Contact composition	Tungsten
M switch	
Configuration	SPDT; passive (intrinsically safe)
Electrical ratings	0.10 amp @ 10 to 30 VDC
Maximum voltage drop	0.1 volts @ 10 mA 0.5 volts @ 100 mA
Contact composition	Rhodium
S switch	
Configuration	SPDT (LED)
Electrical ratings	0.30 amp @ 24 VDC 0.2 amp @ 120 VAC
Maximum voltage drop	3.5 volts @ 10 mA 6.5 volts @ 100 mA
Contact composition	Rhodium
	SPDT • NC
	NO

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## Sensors and switches

#### **Mechanical switch (SPDT)**

Low cost single-pole double-throw mechanical switches with silver contacts are recommended for high power 125 VAC applications. Gold contacts may be used in 24 VDC computer input applications when cycle life does not exceed 100,000 operations.

Mechanical switch (SPD	PT)			
Silver contacts (_V switch)				
Electrical ratings	10 amp @ 125/250 VAC 0.5 amp @ 125 VDC			
Operating life	400,000 cycles			
Not recommended for electrical circ	uits operating at less than 20 mA @ 24 VDC.			
Gold contacts (_W switch)				
Electrical ratings	1 amp @ 125 VAC 0.5 amp @ 30 VDC			
Operating life	100,000 cycles			
C NO	9502 74 - 38.9 111 1/38 125 560, 277 VAC 1/2A 125 VDC, 1/24 150 VDC LISS 100, 1/24 150 VDC			

### **Mechanical switch (DPDT)**

Double-pole double-throw mechanical switches enable two electrical circuits to be activated simultaneously. Each switch circuit is electrically isolated from the other. As with standard silver contacts, DPDT switches are designed to operate in high-power applications.

Mechanical switch (DPDT)				
14 switch				
Electrical ratings	4.5 amp @ 125/250 VAC, 24 to 125 VDC			
Operating life	250,000 (VAC), 100,000 (VDC) cycles			
Not recommended for electrical circ	No 3			

#### **SST** switching sensor

Solid state SST proximity sensors are ideal for use in AC and DC computer input circuits.

_X switch		
Operation	NO/NC (cam selectable)	
Maximum current Inrush Continuous	2.0 amps @ 125 VAC/VDC 0.3 amps @ 125 VAC/VDC	
Minimum on current	2.0 mA	
Leakage current	Less than 0.50 mA	
Voltage range	8 to 125 VDC 24 to 125 VAC	
Maximum voltage drop	6.5 volts @ 10 mA 7.5 volts @ 100 mA	
Operating life	Unlimited	
Warranty	Five years	

#### Model selector - Dual modules and VCTs **Model selector - Proximity switches** SERIES SERIES OX Explosionproof (aluminum cover) Explosionproof (aluminum cover) **FUNCTION FUNCTION** Sensor/switching modules (proximity type) Sensors 33 SST NO switching sensor dual module 2G (2) SPDT Maxx-Guard (low current) NAMUR (EN 60947-5-6; I.S.) 2Н (2) SPDT Maxx-Guard (3 amp) Valve Communication Terminals (VCTs) (2) SPST Maxx-Guard (LED) 2L DeviceNet 92 (2) SPST Maxx-Guard 2P 93 Foundation Fieldbus (bus powered; I.S.) 2S (2) SPDT Maxx-Guard (LED) (4) SPDT Maxx-Guard (low current) 4G 94 Foundation Fieldbus (externally powered) (4) SPDT Maxx-Guard (3 amp) 4H 95 Modbus (4) SPST Maxx-Guard (LED) 4L AS-Interface 96 (4) SPST Maxx-Guard 4P 97 AS-Interface (with extended addressing) 45 (4) SPDT Maxx-Guard (LED) **Expeditors** 4X (4) SST sensor (LED) 82 DeviceNet **Expeditors** AS-Interface 86 Expeditor with (3) SPDT Maxx-Guard (3 amp) 8H **ENCLOSURE** Expeditor with (3) switches F North American **ENCLOSURE** R International North American Brazilian F International S\* Stainless steel North American (NEC/CEC) F Brazilian Stainless steel International (IEC) S\* Stainless steel North American (NEC/CEC) M\* Stainless steel Brazilian Stainless steel International (IEC) \*Available with 03 or 06 conduit entry only Stainless steel Brazilian **CONDUIT ENTRIES** \*Available with 03 or 06 conduit entry only 02 (1) 3/4" NPT & (1) 1/2" NPT **CONDUIT ENTRIES** 03 (1) 34" NPT & (2) 1/2" NPT (1) 34" NPT & (1) 1/2" NPT (2) M20 05 03 (1) 34" NPT & (2) 1/2" NPT (3) M20 05 (2) M20 **VISUAL INDICATION\*\*** (3) M20 SRA Red closed/green open **VISUAL INDICATION\*\*** SGA Green closed/red open SRA Red closed/green open S1A T-1 three-way flow path SGA Green closed/red open S2A T-2 three-way flow path S1A T-1 three-way flow path S3A T-3 three-way flow path S2A T-2 three-way flow path S4A T-4 three-way flow path S3A T-3 three-way flow path T-5 three-way flow path S5A S4A T-4 three-way flow path SOA No indication S5A T-5 three-way flow path SXA Special SOA No indication SCA Continuous SXA Special SCA Continuous **MODEL NUMBER** Partnership ID\* **MODEL NUMBER** Partnership ID\* Mounting hardware required and sold \*Some models may include 5-digit Mounting hardware required and sold \*Some models may include 5-digit separately. suffix for partnership identification. separately. suffix for partnership identification. Model number example: Model number example: 33 Ε 02 SRA (optional) OX 2G Ε 02 SRA (optional) OX

<sup>\*\*</sup> See visual indication designations chart on page 49.

#### Model selector - Mechanical switches and transmitters Explosionproof (aluminum cover) **FUNCTION** Mechanical switches 2V (2) SPDT switches (2) SPDT switches, gold contacts 4V (4) SPDT switches 4W (4) SPDT switches, gold contacts (2) DPDT switches 14 **Position transmitters** 50 Standard with no switches 5G Standard with (2) SPDT Maxx-Guard (low current) 5V Standard with (2) SPDT mechanical switches 5W Standard with (2) SPDT mechanical switches, gold contacts Standard with (2) SST sensor (LED) 5X 70 High performance with no switches 7G High performance with (2) SPDT Maxx-Guard (low current) High performance with (2) SST sensors (LED) **ENCLOSURE** North American R International Brazilian S\* Stainless steel North American (NEC/CEC) Stainless steel International (IEC) Stainless steel Brazilian \*Available with 03 or 06 conduit entry only **CONDUIT ENTRIES** (1) 34" NPT & (1) 1/2" NPT 03 (1) 34" NPT & (2) 1/2" NPT (2) M20 05 (3) M20 **VISUAL INDICATION\*\*** SRA Red closed/green open SGA Green closed/red open S1A T-1 three-way flow path S2A T-2 three-way flow path S3A T-3 three-way flow path S4A T-4 three-way flow path S5A T-5 three-way flow path SOA No indication SXA Special SCA Continuous **MODEL NUMBER** Partnership ID\* Mounting hardware required and sold \*Some models may include 5-digit separately. suffix for partnership identification. Model number example: QX 2V SRA (optional)

## Visual indicator designations

DECICNATION	0°	90°	180°
DESIGNATION	0	90	100
R	RED CLOSED	GREEN OPEN	
G	GREEN CLOSED	RED OPEN	
1	A → B	A ← B	
2	A B	A B	
3	A B	CLOSED	A B
4	A B	A B	А <b>В</b>
5	A B	A ← B	A B
С	↓	100%	
X	Specialty configuration -		

<sup>\*\*</sup> See visual indication designations chart on page 49.

#### Model selector - Dual modules and VCTs Model selector - Proximity switches and transmitters SERIES ON Nonincendive and intrinsically safe ON Nonincendive and intrinsically safe **FUNCTION FUNCTION** Sensor/switching modules (proximity type) Sensors 33 SST NO switching sensor 2G (2) SPDT Maxx-Guard (low current) NAMUR (EN 60947-5-6; I.S.) (2) SPDT Maxx-Guard (3 amp) Valve Communication Terminals (VCTs) (2) SPST Maxx-Guard (LED) 21 (2) SPST Maxx-Guard 92 DeviceNet 2P 2S (2) SPDT Maxx-Guard (LED) 93 Foundation Fieldbus (bus powered; I.S.) (4) SPDT Maxx-Guard (low current) 4G 94 Foundation Fieldbus (externally powered) (4) SPDT Maxx-Guard (3 amp) 4H 95 Modbus 41 (4) SPST Maxx-Guard (LED) AS-Interface 96 4P (4) SPST Maxx-Guard 97 AS-Interface (with extended addressing) (4) SPDT Maxx-Guard (LED) 45 **Expeditors** 4X (4) SST sensor (LED) Intrinsically safe 82 DeviceNet 86 AS-Interface 2J (2) SPST (passive) 2M (2) SPDT (passive) **ENCLOSURE** (2) P+F NAMUR sensors 2N Clear Cover 4N (4) P+F NAMUR sensors C North American (4) SPST (passive) 4J D International (4) SPDT (passive) 4M Position transmitters Aluminum cover (not explosionproof) 50 Standard with no switches Ε North American Standard with (2) SPDT Maxx-Guard (low current) 5G R International 5X Standard with (2) SST sensor (LED) Brazilian 70 High performance with no switches **CONDUIT ENTRIES** High performance with (2) SPDT Maxx-Guard (low current) 7G 7X High performance with (2) SST sensors (LED) (1) 34" NPT & (1) 1/2" NPT 02 03 (1) 34" NPT & (2) 1/2" NPT **Expeditors** Expeditor with (3) SPDT Maxx-Guard (3 amp) 8Н 05 (2) M20 06 (3) M20 8Y Expeditor with (3) switches **ENCLOSURE VISUAL INDICATION\*\*** Clear Cover SRA Red closed/green open C North American SGA Green closed/red open International S1A T-1 three-way flow path S2A T-2 three-way flow path Aluminum cover (not explosionproof) S3A T-3 three-way flow path F North American S4A T-4 three-way flow path International S5A T-5 three-way flow path Brazilian SOA No indication **CONDUIT ENTRIES** SXA Special (1) 34" NPT & (1) 1/2" NPT Continuous 03 (1) 34" NPT & (2) 1/2" NPT (2) M20 05 06 (3) M20 VISUAL INDICATION\*\* SRA Red closed/green open SGA Green closed/red open S1A T-1 three-way flow path S2A T-2 three-way flow path S3A T-3 three-way flow path T-4 three-way flow path S5A T-5 three-way flow path SOA No indication SXA Special SCA Continuous **MODEL NUMBER** Partnership ID<sup>9</sup> Mounting hardware required and sold \*Some models may include 5-digit separately. suffix for partnership identification. **MODEL NUMBER** Partnership ID\* Model number example: Mounting hardware required and sold \*Some models may include 5-digit separately. suffix for partnership identification. QN 33 C 02 SRA (optional) Model number example: QN 2G C 02 SRA (optional)

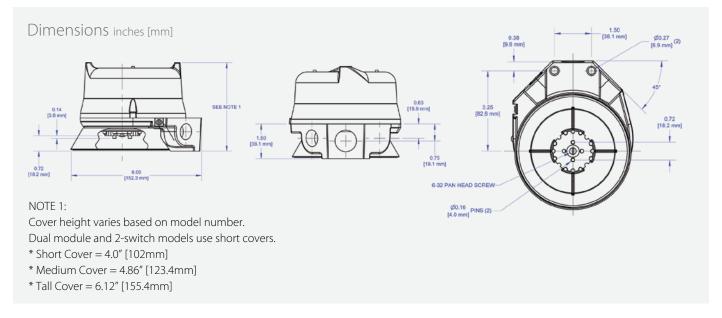
<sup>\*\*</sup> See visual indication designations chart on page 49.

Mode	el Select	or - M	echani	cal swite	thes	
SERI	ES					
QG General purpose (clear cover)						
	FUNC	FUNCTION				
	Mech	anical s	witches			
	2V					
	2W 4V		「switches 「switches	, gold cont	tacts	
	4W	. ,		, gold cont	tacts	
	14	(2) DPD	T switche:	5		
			LOSURE			
		C		l purpose, i		
			housin		clear Lexan® cover and anodized aluminum	
				IDUIT ENI	rdiec	
			02		PT & (1) ½" NPT	
			03		PT & (1) ½" NPT	
			05	(2) M20		
			06	(3) M20		
				VISU	AL INDICATION**	
					Red closed/green open	
					Green closed/red open T-1 three-way flow path	
					T-2 three-way flow path	
				S3A	T-3 three-way flow path	
					T-4 three-way flow path	
				S5A S0A	T-5 three-way flow path No indication	
					Special	
				SCA	Continuous	
	MOD	EL NU	MBER		Partnership ID*	
Mounting hardware required and sold *Some models may include 5-digit suffix for partnership identification.			*Some models may include 5-digit suffix for partnership identification.			
	el numb	er exar	mple:			
QG	2V	C	02	SRA	(optional)	

Specifications	
Materials of construction	
Housing & aluminum cover	Epoxy-coated anodized marine grade aluminum
Clear cover & indicator	Lexan® polycarbonate
Elastomer seals	Buna-N; optional EPDM
Drive shaft	Stainless steel
Drive bushing	Bronze, oil impregnated
Fasteners	Stainless steel
Temperature ratings	
Mechanical components	-40° C to 80° C (-40° F to 176° F)
Dual modules	-40° C to 80° C (-40° F to 176° F)
Maxx-Guard & SST	-40° C to 80° C (-40° F to 176° F)
Warranty	
Mechanical components	Two years
SST & dual modules	Five years
Lexan® is a registered trademark of General Electric Corporation.	

Ratings	
Explosionproof (Ex d, Zone 1 or Class I and II, Div. 1)	QX models*
Nonincendive (Class I and II, Div. 2)	QN models*
Intrinsically safe (Ex ia, Zone 0 or Class I and II, Div. 1)	Functions 44, 93, _A, _J, _M and _N*
Enclosure protection	
NEMA 4, 4X and 6	All models
Ingress Protection 67	All models
Approvals*	See StoneL.com/approvals
$\hbox{$^*$ Only models listed on StoneL's official website are approved per specific rating.}$	

\*\* See visual indication designations chart on page 49.



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