

StoneL's general purpose engineered resin SolaR offers unparalleled value. SolaR's quick set cams, multiple conduit entries, and quick lock partial turn cover allow rapid set-up and installation. Electrical options include mechanical switches, Maxx-Guard hermetically sealed switches, SST solid state sensors, Namur sensors and dual module communication terminals.



1. Quick Access Cover

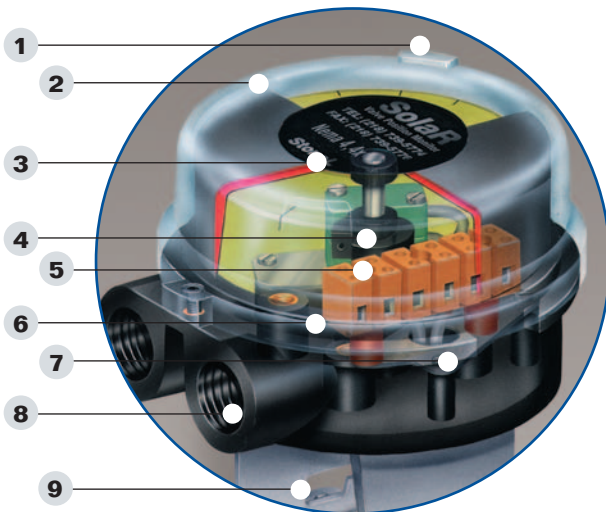
A lockable, partial turn cover ensures fast access for rapid set-up.

2. Compact Design

The SolaR series is a compact construction, minimizing valve package envelope size.

3. High Visibility Indicator

The Red/Green indicator offers clear indication of the current valve position from up to 20 meters (65 feet).



4. Quick Set Cams

Touch & Tune switch cams are set without the need for additional tools further reducing installation time.

5. Easy Wiring

Despite its compact design, the SolaR series is surprisingly easy to wire up with plenty of room to bring wires into the enclosure.

6. Vapor Tight & Submersible

Rated IP 67 and NEMA 4, 4x and 6, the SolaR may be rigorously washed down and temporarily submersed.

7. Rugged Corrosion Resistant Enclosure

A rugged polycarbonate enclosure offers excellent impact and chemical resistance.

8. Solenoid Termination Capability

With two conduit entries standard and two additional termination points, solenoid valves may be terminated within the enclosure, reducing installation costs.

9. Standard Namur Mounting

Mounting pad and shaft are designed to VDI/VDE 3845 (Namur) and will mate directly to actuators with this standard.

Switch/Sensor Options

Mechanical Switches (SPDT)



Mechanical silver contact switches are ideal for high power applications and gold contacts for 24VDC low power applications. **(For more detailed information please see page 9.)**

Standard Silver Contacts

Electrical Ratings	10 Amp @ 125/250 VAC
	0.5 Amp @ 125 VDC
Operating Life	200,000 Cycles

Not recommended for electrical circuits operating at less than 20 mA @ 24 VDC.

Gold Contacts (SPDT)

Electrical Ratings	1.0 Amp @ 125 VAC
	0.5 Amp @ 30 VDC
Operating Life	100,000 Cycles



Mechanical Switches (DPDT)

Double-pole double throw mechanical switches enable two electrical circuits to be activated simultaneously. Each switch circuit is electrically isolated from the other. **(For more detailed information please see page 9.)**

Electrical Ratings	4.5 Amp @ 125/250 VAC
Temperature Range	-40° to 82° C (-40° to 180° F)
Operating Life	250,000 Cycles

Not recommended for electrical circuits operating at less than 20 mA @ 24 VDC.

Maxx-Guard Switches (SPST)



Maxx-Guard hermetically sealed reed switches with SPST contacts are ideal for either 120VAC or 24VDC computer inputs. Switches are available in LED or non-LED versions. **(For more detailed information please see page 8.)**

Electrical Ratings	0.15 A @ 125VAC, 30VDC
Passive Version (IS)	0.15A @ 30VDC
Operating Life	5 million Cycles
Seal	Hermetically Sealed



P+F Sensors

Inductive Pepperl + Fuchs sensors may be selected for your intrinsically safe or other special applications.

NJ2-V3-Namur (Conforms to DIN 19234)

Voltage Ratings	Nominal 6 VDC from IS Barrier
Current Ratings	No Target, I > 3 mA
	Target Present, I < 1 mA

Other P+F Sensors

The following models are also available for special applications: NBB2-V3-E0-V5, NBB2-V3-E2-V5, NJ2-12GK-SN. Please consult factory for details.

Sensors and Communications

Dual Module System

The SolaR platform 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 5 year warranty. **(For more detailed information please see pages 2 through 8.)**



Fieldbus DeviceNet.



MODBUS

SST Switching Sensors (33)

Configuration (2) SST Switching Sensors
Terminations for Solenoid
Electrical Ratings 0.3 Amps @ 125 VAC/DC

Namur Sensors (44)

Configuration (2) Namur Sensors
Terminations for Solenoid
Intrinsically safe (DIN 19234)
Voltage Range 6 to 29 VDC
Current Ratings Target On I < 1 mA
Target Off I > 3 mA

AS-Interface VCT (96)

Configuration (2) Sensor Inputs
(2) Auxiliary Inputs
(2) Power Outputs (Solenoids)
Max. Current 160mA, Both Outputs Combined
(Current Limited to 200mA)
Outputs, Max. Power 4 Watts, Both Outputs Combined
Outputs, Voltage 25 to 30 VDC

AS-Interface VCT (97) with Extended Addressing

Configuration (2) Sensor Inputs
(2) Auxiliary Discrete Inputs
(1) Power Output (Solenoid)
Max. Current 100mA
Outputs, Max. Power 2.4 Watts
Outputs, Voltage 25 to 30 VDC

DeviceNet VCT (92)

Configuration (2) Discrete Inputs (Open & Closed)
(2) Power Outputs (Solenoids)
(1) 4-20 mA Auxiliary Input
Outputs, Max. Power 4 Watts, Both Outputs Combined
Outputs, Voltage 24 VDC

Bus Powered FOUNDATION Fieldbus VCT (93)

Configuration (2) Discrete Inputs, DI (Open & Closed)
(2) Discrete Outputs, DO
(Piezo Valves)
Outputs 2mA @ 6.5 VDC each; Current Limited to 2mA (Bus Powered)

Externally Powered FOUNDATION Fieldbus VCT (94)

Configuration (2) Discrete Inputs, DI (Open & Closed)
(2) Power Outputs, DO
(Solenoids)
Outputs 4 watts total @ 24VDC Both
Outputs Combined; Current Limited to 200mA (Externally Powered)

Modbus VCT (95)

Configuration (2) Discrete Inputs (Open & Closed)
(2) Power Outputs (Solenoids)
Outputs 4 Watts @ 24 VDC Both
Outputs Combined (Current Limited to 200mA)

Specifications

Materials of Construction

Housing Material Calibre¹ Polycarbonate
Cover Material Calibre¹ Polycarbonate
Indicator Drum ABS Resin
Shaft Stainless Steel
Namur Bracket Stainless Steel
Fasteners Stainless Steel
Seals Buna-N

1. Calibre is a Registered Trademark of the Dow Chemical Company.

Ratings

Enclosure Protection NEMA 4, 4X, 6 & IP67

Other Specifications

Temperature Range -40° to 82°C (-40° to 180°F)
(Some sensors may vary)
Warranty 2 Years, Mechanical
Parts 5 Years, Dual Module

Model Selector

Model Example: SR2VS2LR

	Function	Enclosure/Conduit	Shaft	Indicator
SR	Proximity Models	S2 (2) 1/2" NPT	L 15 mm NAMUR	R Red Closed/ Green Open
	33 (2) SST Sensor Dual Module with LED	S5 (2) M20	S 2 Pin Coupler	1 or 2 Three Way Flow Path
	2F (2) PNP Solid State 3-wire P&F	S8 (2) PG 13.5		X Special
	2L (2) SPST Maxx-Guard with LED			0 None
	2P (2) SPST Maxx-Guard			See Visual Indications Designations chart on page 15
	Intrinsically Safe Models			
	44 (2) Namur Sensor Dual Module (DIN 19234)			
	2N (2) P & F Sensors Switches (DIN 19234)			
	2J (2) SPST Maxx-Guard (Passive)			
	2K (2) SPST Maxx-Guard LED (Reed)			
Mechanical Models				
2V (2) SPDT Mechanical				
2W (2) SPDT Gold Contact Mechanical				
14 (2) DPDT Mechanical				
Valve Communication Terminals (VCT)				
92 DeviceNet Dual Module				
93 FOUNDATION Fieldbus Dual Module (Bus Powered)				
94 FOUNDATION Fieldbus Dual Module (Externally Powered)				
95 Modbus Dual Module				
96 AS-Interface Dual Module				
97 AS-Interface Dual Module with Extended Addressing				

Dimensions (mm)

