

Eclipse

Compact and modular with solid state reliability

StoneL's Eclipse features dual solid state sensors with optional communications neatly integrated into a sealed module. The function module and trigger/indicator attach quickly and conveniently to standard VDI/VDE 3845 (NAMUR) actuator accessory mounting pads.

The Eclipse series is available in nonincendive and intrinsically safe versions (EN) for hazardous areas and in a general purpose completely sealed microconnector version (EG).

Enclosure options



EN: Nonincendive with integral wire termination area

- Suitable for all hazardous areas.
- Rated for NEMA 4, 4X, 6 (intrinsically safe and nonincendive rated: IP67).
- Additional termination points and dual conduit entries eliminate junction boxes for solenoid valve termination.
- Convenient wiring compartment and pre-labeled terminal strip enables rapid installation.



EG: General purpose with convenient micro-connector wiring

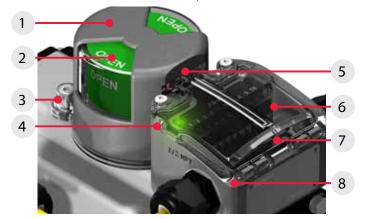
- Available with additional built-in connector for solenoid termination.
- Micro-connectors with potted and sealed enclosure eliminate any threat of moisture contamination in wiring.
- Electronic module integrated permanently into enclosure.

38 | Valve communication & control StoneL.com

Features

- 1. No moving mating parts assure long life and trouble-free
- 2. Red/green visual indicator boldly displays valve status, and coordinates with red/green LEDs.
- 3. Direct attachment to ISO/NAMUR mounting pads with simple mounting kit (sold separately)
- 4. High intensity red and green LEDs indicate electronic switch status to confirm electrical operation.
- 5. Sensor triggers are adjustable in 3.5 degree increments through 360 degrees for precision and flexibility.
- 6. Submersible and capable of high pressure washdown, Eclipse sensors and electronics are fully sealed to eliminate hazard threat and corrosion problems.

- 7. Extremely compact, rugged enclosure integrates position sensors, communication, electronics, and power outputs for solenoids.
- 8. All mechanical parts are made of Lexan® or stainless steel for corrosion resistance and durability.



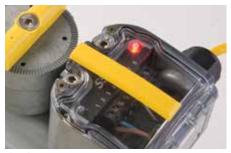
Triggering and visual indicator

Red and green visual indication is viewable from 360 degrees around the automated valve and from above at distances up to 70 feet. The yellow flow line indicator is also available, which is viewable from all angles at a distance up to 30 feet.



Red/green option

Eclipse solid state inductive sensors are activated by stainless steel targets embedded into the visual indicator drum. Open and closed targets may be independently adjusted in 3.5 degree increments.



Flow line option

Specifications		
Materials of construction		
Housing	Lexan® polycarbonate	
Drum components	Lexan® polycarbonate	
Fasteners	Stainless steel	
Triggers and coupling	Stainless steel	
Quick connectors	Stainless steel	
Operating life	Unlimited	
Temperature range	-40° C to 80° C (-40° F to 176° F)	
Warranty		
Dual modules	Five years	
Mechanical components	Two years	
Lexan® is a registered trademark of General Electric Corporation.		

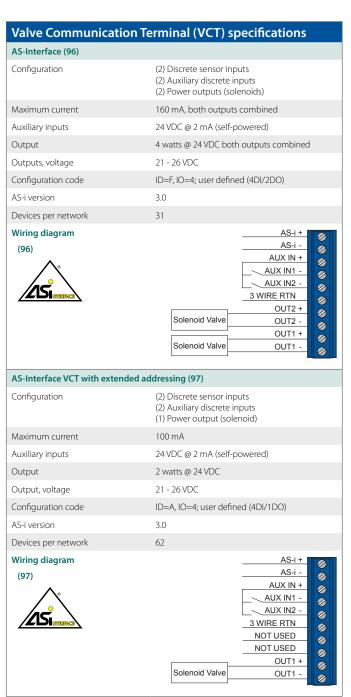
Ratings		
Nonincendive (Class I and II, Div. 2)	EN models*	
Intrinsically safe (Ex ia, Zone 0 or Class I and II, Div. 1)	EN44*	
Enclosure protection		
NEMA 4, 4X and 6	All models	
Ingress Protection 67	All models	
Approvals*	See StoneL.com/approvals	
* Only models listed on StoneL's official website are approved per specific rating.		

Sensing and communication

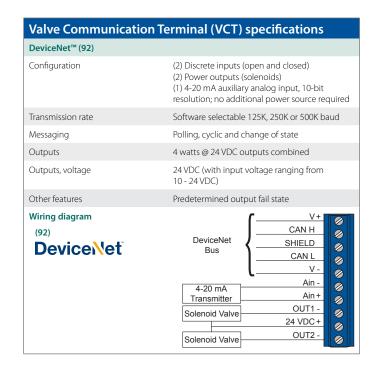
The Eclipse offers incredible value and space efficiency. Communications, position sensing, power outputs, and auxiliary inputs are sealed in the Eclipse function module. Select from NAMUR sensors, SST switching, or AS-Interface, or DeviceNet™ communication terminals. All are fully solid state and sealed.

EN features a removable, fully sealed dual module to facilitate quick, convenient maintenance and wiring.

SST switching sensors (33, 34)		
Configuration	(2) SST solid state sensors (2) Wire terminations for one solenoid	
Operation	Select either NO (33) or NC (34) models	
Maximum current inrush	1.0 amps @ 125 VAC/VDC	
Maximum current continuous	0.1 amps @ 125 VAC/VDC	
Minimum on current	2.0 mA	
Maximum leakage current	0.5 mA	
Voltage range	24 - 125 VAC 8 - 125 VDC	
Maximum voltage drop	6.5 volts @ 10 mA 7.5 volts @ 100 mA	
\$\$T	Solenoid 1 2 Power 2 Valve Open 2 1 5	
	Valve Open Common Valve Closed Common	
NAMUR sensors (44)	Common Valve Closed	
NAMUR sensors (44) Configuration	Common Valve Closed	
. ,	Common Valve Closed Common (2) NAMUR sensors (EN 60947-5-6; I.S.)	
Configuration	(2) NAMUR sensors (EN 60947-5-6; I.S.) (2) Wire terminations for one solenoid	
Configuration Operation	(2) NAMUR sensors (EN 60947-5-6; I.S.) (2) Wire terminations for one solenoid Normally closed NAMUR sensors (solid state)	

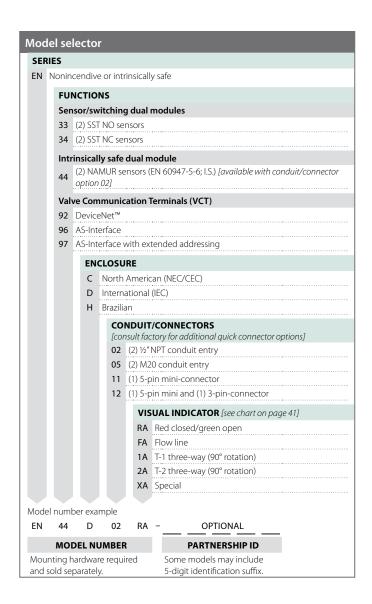


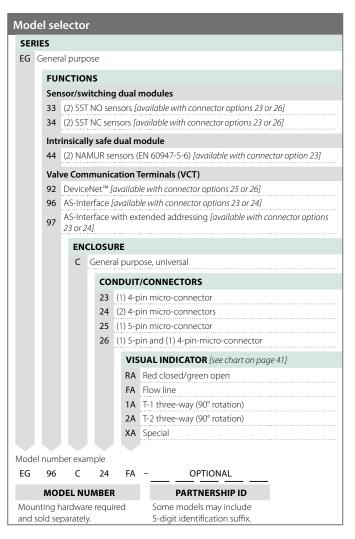
40 | Valve communication & control StoneL.com

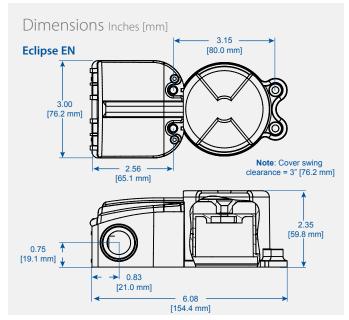


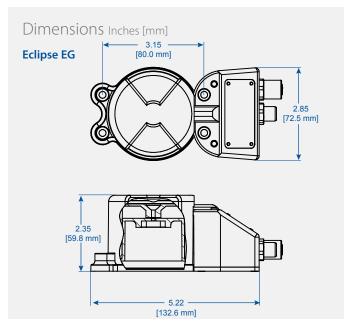
Eclipse visual indicator designations

DESIGNATION	0°	90°
R	RED CLOSED	GREEN OPEN
G	GREEN CLOSED	RED OPEN
F		
1	A B	A B
2	A B	A B
х	Specialty configuration - please consult factory	







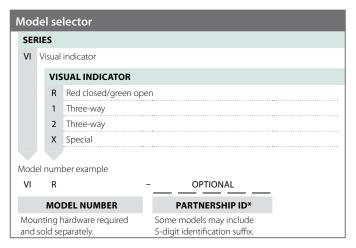


Stand alone visual indicator

Clearly view valve position status from up to 75 feet with StoneL's stand alone visual indicator. The indicator's rugged Lexan® construction makes it resistant to physical damage and tolerant to most corrosives.







Visual indicator designations

DESIGNATION	0°	90°
R	RED CLOSED	GREEN OPEN
G	GREEN CLOSED	RED OPEN
1	A B	A B
2	A B	A B
Х	Specialty configuration - please consult factory	

