

# Valve Automation



## The Eclipse



MODBUS

DeviceNet



HART  
COMMUNICATION PROTOCOL



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 non-incendive and intrinsically safe versions (EN) for hazardous areas with a removable module and in a general purpose completely sealed micro-connector version (EG).

### Feature Rich Design Offers Incredible Value

- Position sensors, communication electronics and power outputs for solenoids are integrated into an extremely compact, rugged enclosure.
- Red/Green visual indicator boldly displays valve status, and coordinates with Red/Green LEDs.
- Fully submersible and capable of high pressure wash down.
- Eclipse sensors and electronics are fully sealed to eliminate hazard threat and corrosion problems.
- Direct attachment to ISO/Namur mounting pads.
- High intensity red and green LEDs indicate electronic switch status to confirm electrical operation.
- Sensor triggers are adjustable in 3.5 degree increments through 360 degrees for precision and flexibility.
- All mechanical parts are made of Lexan® or stainless steel for corrosion resistance and durability.
- No moving mating parts assure long life and trouble-free operation.

### EN: The Ultimate in Convenience, Reliability & Cost Effectiveness in Class I, Div. 2 Areas



- Suitable for all hazardous areas.
- Rated for NEMA 4, 4X, 6 (intrinsically safe and nonincendive approved: IP68).
- 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: Convenient MicroConnector 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.

### Triggering & Visual Indicator

Red Green Indicator



Flow Line 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.

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.

# Valve Automation



## Other Specifications and Ratings

### Materials of Construction and Ratings

Housing	Lexan Polycarbonate
Drum Components	Lexan Polycarbonate
Fasteners	Stainless Steel
Triggers and Coupling	Stainless Steel

<b>Temperature Rating</b>	-40°C to 80°C (-40°F to 176°F)
---------------------------	--------------------------------

<b>Operating Life</b>	Unlimited
-----------------------	-----------

### Warranty

Dual Module	5 Years
Mechanical Components	2 Years

### Nonincendive Ratings

NEC/CEC	Class I Division 2 Groups A, B, C, D Class II Division 2 Groups F, G
IEC	Ex nA, IIC T5, Zone 2

### Intrinsically Safe Ratings

NEC/CEC	Class I Divisions 1 & 2 Groups A, B, C, D Class II Divisions 1 & 2 Groups E, F, G
IEC	Ex ia IIC T5, Zones 0, 1 & 2

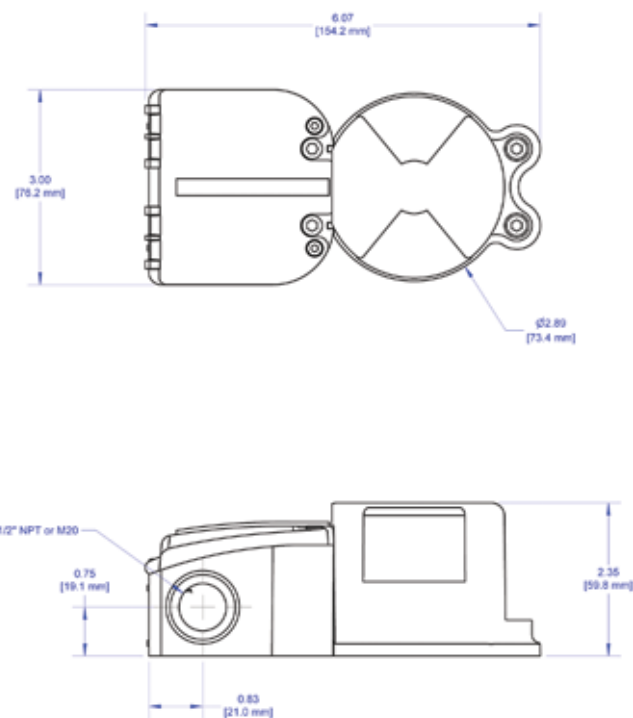
### Enclosure Protection

NEC/CEC	4, 4X & 6C
IEC	IP67

## Dimensions

Inches [mm]

ECLIPSE EN



ECLIPSE EG

