# StoneL™
*Valve Communication Solutions*

# Hawkeye™ HX
# Explosionproof linear point sensor
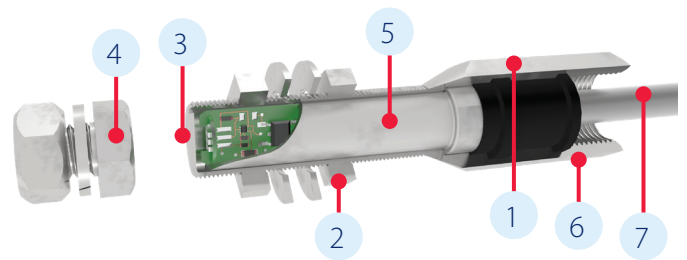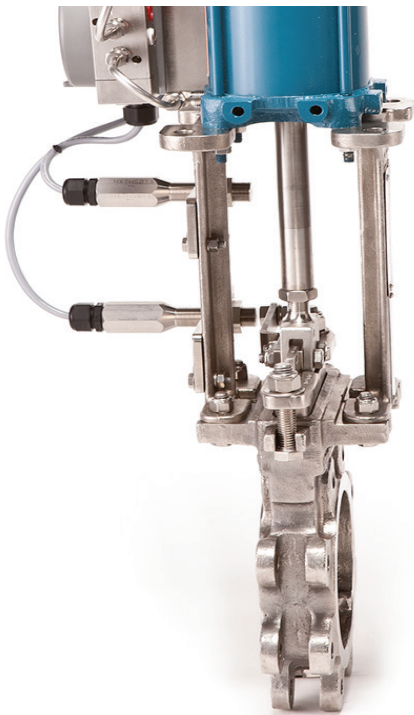
comprehensive
**5 YEAR** warranty

# Hawkeye™ HX
# Rugged, corrosion proof for all hazardous locations

The explosionproof Hawkeye, with its stainless steel enclosure, is designed for service in harsh process environments. It features a solid state proximity sensor which is encased in a shock absorbent urethane potting material. Outputs for universal switching or NAMUR (EN 60947-5-6; I.S.) are standard options.
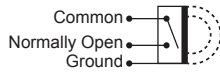
## Features

1. **316 stainless steel enclosure** is extremely durable and corrosion resistant.

2. **Stainless steel washers and fasteners** included with HX enable secure vibration resistant mounting.

3. **Solid state magnetic sensor** detects trigger at distances up to 6 mm (extended sensing range also available).

4. **Magnetic trigger is embedded** and sealed with a wide-temperature corrosion-resistant urethane in the included stainless steel bolt.

5. **Sensor electronics are urethane sealed** in a module which is additionally sealed within the stainless steel enclosure assuring high tolerance to shock and vibration.

6. **All conduit/connector options (½" NPT, M20 and cable gland)** are available with standard 6-foot cord lengths allowing flexible wiring options.

7. **No seal offs are required** with explosionproof conduit systems, reducing installation costs.

8. **Suitable for most hazardous locations** explosionproof, flame proof Div 1/Zone 1; intrinsically safe Div 1/Zone 0.
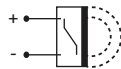
## Sensor specifications

### SST switching sensors (35)

| | |
|---|---|
| Configuration | (1) SST solid state sensor |
| Operations | Normally open (NO) *for Normally closed (NC), consult factory* |
| Maximum current inrush | 1.0 amp |
| Maximum current continuous | 0.1 amp |
| Maximum leakage current | 0.25 mA (VAC) 0.15 mA (VDC) |
| Voltage range | 20 - 250 VAC 8 - 250 VDC |
| Maximum voltage drop | 6.5 volts @ 10 mA 7.2 volts @ 100 mA |

**Wiring diagram (35) normally open**

Common
Normally Open
Ground

### NAMUR sensor (45)

| | |
|---|---|
| Configuration | (1) NAMUR sensor (EN 60947-5-6; I.S.) |
| Operation | Normally closed (NC) NAMUR sensor (solid state) |
| Voltage range | 5 - 29 VDC |
| Current ratings | Target on I<1 mA Target off I>3 mA |

**Wiring diagram (45)**

+
-

## Model selector

### SERIES

HX Explosionproof Hawkeye

**FUNCTION**

| | |
|---|---|
| 35 | SST 240V sensor (NO type sensor) |
| 45 | NAMUR sensor (EN 60947-5-6; I.S.) |

**ENCLOSURE**

| | |
|---|---|
| S | Stainless steel North American (NEC/CEC) |
| T | Stainless steel International (IEC) |

**CONDUIT/CONNECTORS**

| | |
|---|---|
| 01 | (1) ½" - 14-NPT |
| 02 | (1) M20 x 1.5 |
| 03 | Cable gland (Ex d) *[select enclosure option "T"]* |

**FEATURES**

| | |
|---|---|
| SA | Standard |

Model number example

HX   35   S   01   SA   –   _____   OPTIONAL

| **MODEL NUMBER** | **PARTNERSHIP ID** |
|---|---|
| Mounting hardware required and sold separately. | Some models may include 5-digit identification suffix. |

## Specifications

### Materials of construction

| | |
|---|---|
| Enclosure and fasteners | 316 stainless steel |
| Trigger | 316 stainless steel and urethane |

### Other specifications*

| | |
|---|---|
| Conduit connection | ½" NPT or M20 |
| Wiring | 72" (1.8 meters) length 18 gauge multi-strand in a single jacket ITC and PLTC rated |
| Sensing distance | 4-6 mm *Extended range available* |
| Temperature range | -40° C to 80° C (-40° F to 176° F) *Consult factory for ultra-cold temperature* |
| Warranty | Five years |

\* Detailed technical specifications available in the installation manual available on StoneL's official web site. Consult factory for additional specifications.

## Ratings

| | |
|---|---|
| Explosionproof *(Ex d, Zone 1 or Class I and II, Div. 1)* | All models* |
| Intrinsically safe *(Ex ia, Zone 0 or Class I and II, Div. 1)* | Function 45* |

### Enclosure protection

| | |
|---|---|
| Type 4, 4X and 6 | All models |
| Ingress Protection 66 and 68 | All models |
| **Approvals*** | See StoneL.com/approvals |

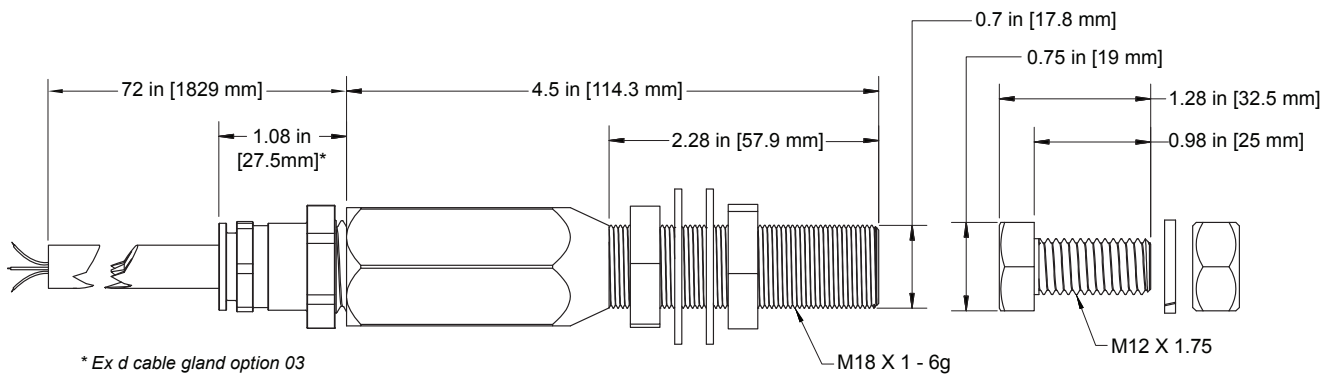\* Only models listed on StoneL's official web site are approved per specific rating.

## Dimensions

72 in [1829 mm]
1.08 in [27.5mm]*
4.5 in [114.3 mm]
2.28 in [57.9 mm]
0.7 in [17.8 mm]
0.75 in [19 mm]
1.28 in [32.5 mm]
0.98 in [25 mm]

*\* Ex d cable gland option 03*

M18 X 1 - 6g

M12 X 1.75