

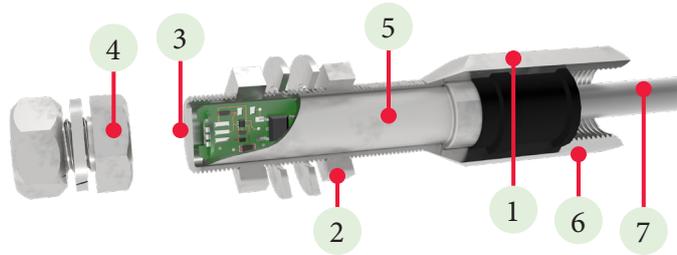
Explosionproof linear point sensor Stonel™ Hawkeye™ HX series





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) <i>for Normally closed (NC), consult factory</i>
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

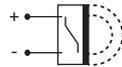
Wiring diagram (35) normally open



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)



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*

* Only models listed on valmet.com/flowcontrol web site are approved per specific rating.

Model selector

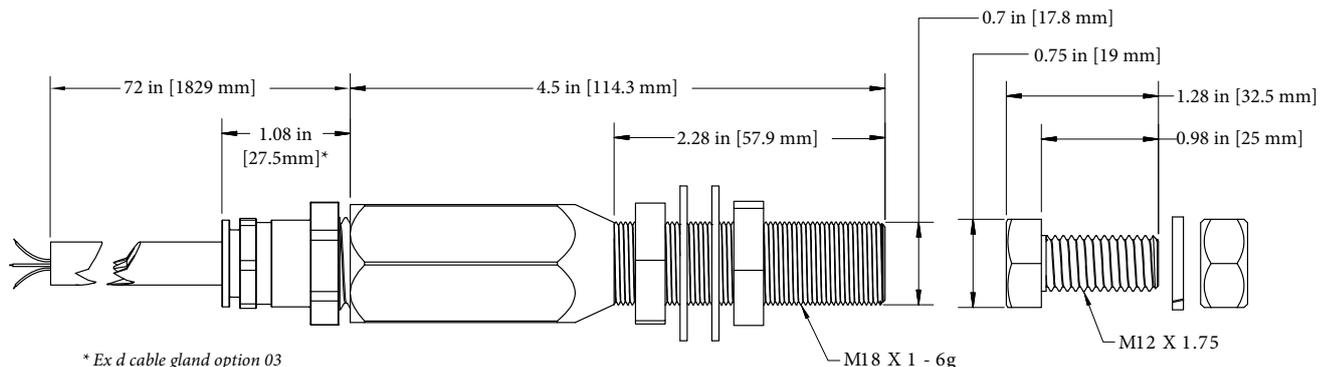
SERIES	
HX	Explosionproof Hawkeye
FUNCTION	
35	SST 240V sensor (NO type sensor)
45	NAMUR sensor (EN 60947-5-6; I.S.)
ENCLOSURE	
S	Stainless steel North American (NEC/CEC)
T	Stainless steel International (IEC)
CONDUIT/CONNECTORS	
01	(1) ½" - 14-NPT
02	(1) M20 x 1.5
03	Cable gland (Ex d) [select enclosure option "T"]
FEATURES	
SM	Standard
Model number example	
HX 35 S 01 SM -	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 <i>Extended range available</i>
Temperature range	-40° C to 80° C (-40° F to 176° F) <i>Consult factory for ultra-cold temperature</i>
Warranty	Five years

* Detailed technical specifications available in the installation manual available on valmet.com/flowcontrol web site. Consult factory for additional specifications.

Dimensions



* Ex d cable gland option 03

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