Stonel™ Hawkeye™ Explosionproof linear point sensor
HX series

comprehensive
5 YEAR warranty

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.
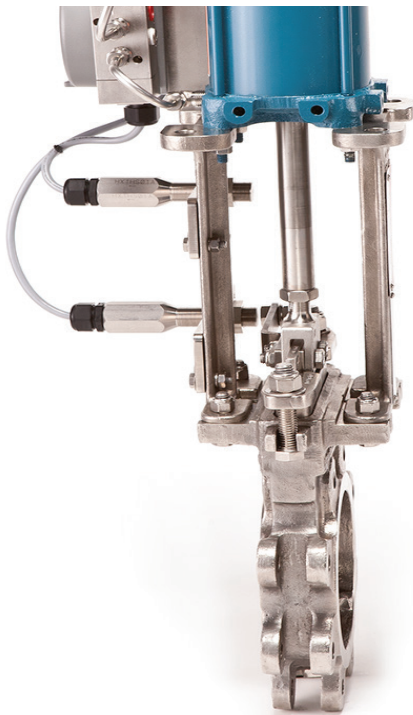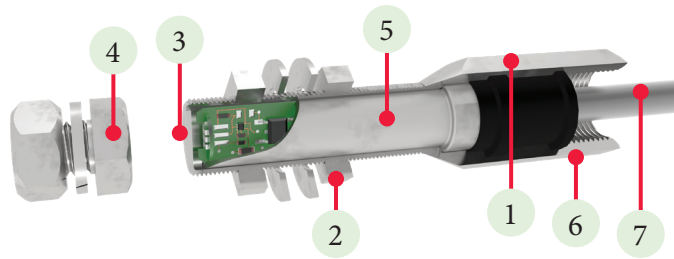

Features

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 embedde**d 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
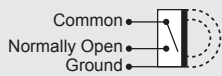
NAMUR sensor (45)

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)**

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-
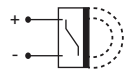
Ratings

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 manufacturer's website

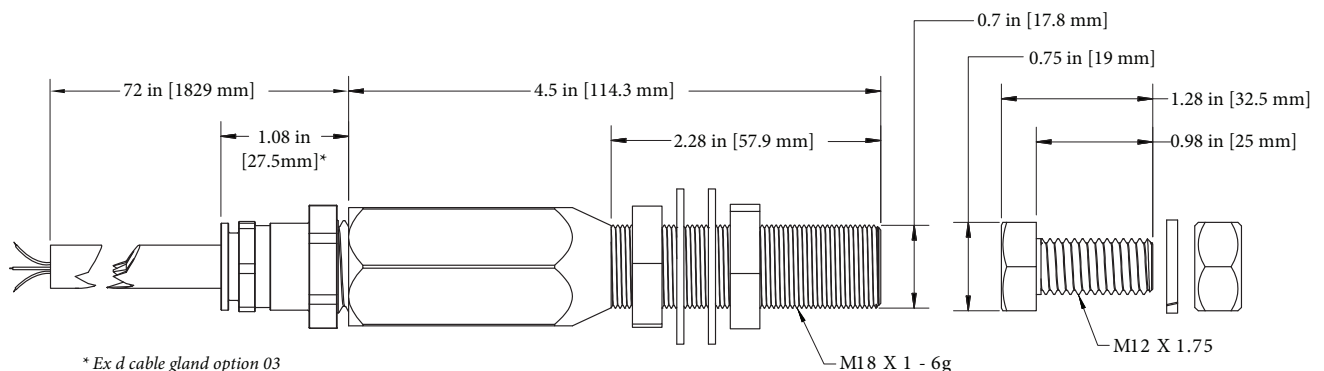* Only models listed on Valmet official web site are approved per specific rating.

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
			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 Valmet official web site. Consult factory for additional specifications.

Dimensions

72 in [1829 mm] 4.5 in [114.3 mm] 0.7 in [17.8 mm] 0.75 in [19 mm] 1.28 in [32.5 mm] 0.98 in [25 mm]

1.08 in [27.5mm]* 2.28 in [57.9 mm]

* Ex d cable gland option 03

M18 X 1 - 6g   M12 X 1.75

Valmet