

## Latch Hawk 1303W and 1303N

Salunda has developed a solution based on its proprietary sensor technology for monitoring fingerboard latches in harsh environments.

Suitable for installation by an unskilled operator, the Latch Hawk only requires four simple steps to install or replace. The patented system makes a repeatable, accurate, non-contact measurement of the position of a fingerboard latch whilst remaining robust, vibration proof and non-invasive. Using core technology initially developed for jet engines, the system has been successfully tested to over 300,000 latch cycles with zero errors. The measured position is then converted into a standard 4-20mA output signal, from which the sensor also draws its power.



### Benefits & features

- Eliminate dropped pipe incidents
- Safely automate pipe handling
- Repeatable, accurate, non-contact direct measurement of latch
- Retrofittable to new and existing fingerboards
- Intrinsically safe, salt spray and vibration proof
- Compatible with all latch variants
- Power over communications
- Extremely robust and long lasting
- Maintenance free

### Accessories available:


1303CA\_40\_A (40m) and 1303CA\_15\_A (15m) pre-made cable with connector: Intrinsically safe and coloured sky blue for intrinsic safe circuit identification. Drilling mud resistant to NEK606.

# Latch Hawk 1303W and 1303N

## Technical Specifications

Parameter	Minimum	Nominal	Maximum
Signal Voltage, Vdc	12	24	28
Signal Current, mA	4		20
Sensor Width (1303W), mm		207	
Sensor Width (1303N), mm		120	
Sensor Length, mm		46	
Sensor Height (not including stent), mm		56.5	
Sensing Range - Depending on installation and latch tolerances, degrees			6
Response Time, ms		100	
Time to live, sec			4
Operating temperature range, °C	-25		70
Enclosure rating:		IP56	
Connection:		M-12 Male Connector	
Weight (1303W), g		570	
Weight (1303N), g		510	
Latch cycle life, latch cycles (Tested to 300,000 cycles without errors)		200,000	

## Latch Hawk is approved for use in hazardous locations:

 II 2 G Non-Mining products, Group II, Category 2 for use in atmospheres potentially containing gas/vapour/mist  
IECEx Zone 1 & 2, Gas Group IIA & IIB, T3  
ATEX Zone 1 & 2, Gas Group IIA & IIB, T3

Refer to the full user guide, available from [www.salunda.com](http://www.salunda.com), before installing in a hazardous location.

## Interface and Connections

Parameter	Comments
Pin 1 M-12 Connector	Signal +
Pin 3 M-12 Connector	Signal -
Connector body	Finger Ground

## The Latch Hawk 1303N is designed to fit the following Fingerboard Latches

• DP	143879	D1120-00017
• DP	142558	D1120-00212
• DP	142560	D1120-00018
• DP	198204	D1120-00919
• DP	185821	D1120-00791
• DP	190867	D1120-00905
• DP	153361	D1120-00488
• CSG	185938	D1120-00778
• CSG	170435	D1120-00482
• CSG	142427	D1120-00317
• CSG	156484	D1120-00481

## The Latch Hawk 1303W is designed to fit the following Fingerboard Latches

• CSG	198010	D1120-00911
• CSG	198011	D1120-00910
• CSG	198079	D1120-00914
• DC	198087	D1120-00915
• DC	198089	D1120-00916 - With customer supplied metal plate
• DC	198091	D1120-0091

## Agency Approvals

CE, IECEx Intrinsically Safe, ATEX Intrinsically Safe, DN

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