

WDA Sensor

BETTER BY DESIGN

WDA Sensor

High Power Extended Range Magnetic Proximity Sensor

APPLICATION

Non-contacting extended range magnetic proximity sensor, not affected by dust or material build up, used to detect moving ferrous material up to 3 inches away from the sensor.

METHOD OF OPERATION

The WDA sensor is designed for use with bucket elevators and conveyors to detect the buckets in order to measure speed and alignment. It can also detect screw conveyor flights, and ferrous bolts when attached to non-ferrous buckets. A more specialized use of the WDA sensor is for broken/slack chain detection.

The sensor is used in conjunction with a PLC or with 4B's Watchdog™ Elite or A400 Elite control units. Two output signals are provided: one signal is a pulse output, representing each bucket detected: the second signal is a continuous output when moving buckets are detected.

FEATURES

- ▶ Adjustable Sensing Range 1" to 3"
- ▶ LED Indication
- ▶ Mounting Bracket Included
- ▶ 1/2 Inch Conduit Entry
- ▶ Stainless Steel Construction
- ▶ High Temperature Version Available

PART NUMBERS/ACCESSORIES

- ▶ WDA3V34C WDA Standard Sensor
- ▶ WDA3V34C-HS WDA High Speed Sensor (Special Order)
- ▶ HTAS1V34 WDA High Temperature Sensor
- ▶ WDAMB Sensor Mount (Included with Sensor)

4B COMPATIBLE MONITORING SYSTEMS

- ▶ WDC3NV46C Watchdog Elite Monitoring System
- ▶ A4004V46C A400 Elite Monitoring System



WDA Sensor
(WDA3V34C)



ATEX and IECEx Versions Available



WDA High Temperature Sensor
with Remote Electronic Box

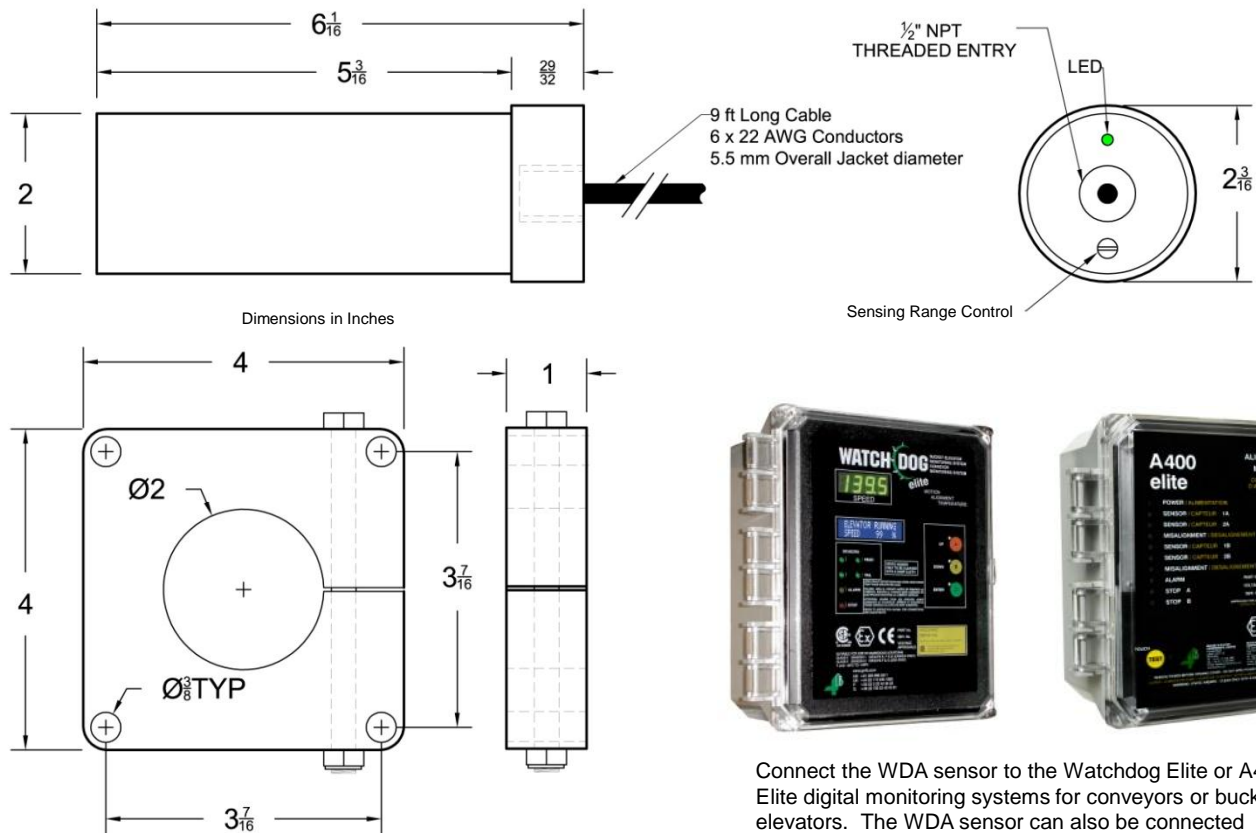
Detailed specification, wiring diagrams and installation/operating instructions available upon request.

Please refer to instruction manual for correct installation.
Information subject to change or correction. Jan 2012

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DIMENSIONS



Connect the WDA sensor to the Watchdog Elite or A400 Elite digital monitoring systems for conveyors or bucket elevators. The WDA sensor can also be connected directly to a motor starter circuit or PLC.

TECHNICAL SPECIFICATIONS

WDA Sensor - Extended Range Magnetic Proximity Sensor

	WDA3V34C	HTAS1V34
Voltage:	12-24 VDC ± 10%	12-24 VDC ± 10%
Supply Current:	65 mA	130 mA
LED Indicator:	Green (Flashing) - Target Detected Green (Off) - No Target Detected	Green (Flashing) - Target Detected Green (Off) - No Target Detected
Outputs (Max):	100 mA Sink (Pull) 50 mA Source (Push)	100 mA Sink (Pull)
Detection Range (1" Dia. Target):	Adjustable: 1" - 3" (25 mm - 75 mm)	Adjustable: 1" - 3" (25 mm - 75 mm)
Detection Rate:	20 - 2,000 Targets/Minute	20 - 2,000 Targets/Minute
Cable:	6 Conductor - 9ft Long	3 Conductor - 13ft Long
Conduit Entry:	1/2" NPT	1/2" NPT
Temperature Rating:	-14°F to +160°F	-14°F to +302°F Continuous -14°F to +356°F Maximum
Protection:	IP66	IP66
Approval:	CSA / NRTL Class II Div. 1 Groups E, F, & G (US and Canada) ATEX and IECEx Available	CE - Europe ATEX and IECEx Available
Dimensions:	2" DIA x 5-3/4" (50mm DIA x 150mm)	2" DIA x 5-3/4" (50mm DIA x 150mm) - Sensor L 5-1/2" x W 3-1/2" x D 2-1/4" - Interface Box