



WATCHDOG ELITE

TECHNOLOGY · INNOVATION · QUALITY · VALUE

WATCHDOG ELITE Bucket Elevator / Conveyor Monitoring System

WDC3V4CAI - Watchdog Elite Control Module
12 to 24 DC
Ex II 2D T125°C Zone 21

WDC3V46CAI - Watchdog Elite Control Module
Multi-voltage: 95 - 250VAC /12-24 DC
Ex II 3D T125°C Zone 22

APPLICATION

The Watchdog Elite is a multi-function hazard monitor for bucket elevators and conveyors that monitors belt & pulley alignment (top and bottom), bearing temperature, belt speed & blockage detection.

An LCD screen displays elevator status messages (available in 4 different languages) and a super bright LED display shows belt speed.

Calibration and set-up parameters are accessed via password protected front panel touch buttons.

FEATURES

- ▶ Clear, concise information displayed in a choice of 4 languages
- ▶ Easy set-up & calibration - password-protected
- ▶ Test program and self-diagnostics - no need to stop the elevator
- ▶ IP 66, Nema 12
- ▶ ATEX, IECEX & CSA Approved

OPTIONS

- ▶ Communication via RS485 or PLC Interface Board
- ▶ F500 Communication Gateway

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



- Belt Speed
- Belt Alignment
- Bearing Temperature
- Pulley Alignment
- Blockage Detection
- Acceleration Monitoring



ATEX Zones 21 & 22

IECEX



CLASS 2 div. 2
Groups E,F,G



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Bearing Temperature Sensor WDB

Type NTC (continuous temperature) 16 to + 110°C
 Type PTC (fixed) 80°C standard – other temperatures available upon request
 Atex-Approved: Ex II 1D T125°C for zones 20, 21 & 22
 Installation: screw into existing bearing grease nipple



Chokeswitch - Binswitch BS15V10AI

Type: capacitive sensor
 Atex-Approved: Ex II 1D T100°C for zones 20, 21 & 22
 Power Supply: 24-240 V AC / DC
 Option: Abrasion Shield BAS2



Belt misalignment switch Touchswitch

Atex Approved: Ex II 1D T120°C & Ex II 2DT80°C
 Zones 20, 21 & 22
 Power Supply: 24 VDC
 Can also be used for pulley alignment.



Belt misalignment switch WDA3V34CAI

Atex-Approved: Ex II 1D T120°C
 Zones 20, 21 & 22
 Power Supply: 12-24 VDC
 Output: Pulsed and continuous
 Detection range: 50 - 100 mm depending on target



Belt misalignment switch BAP21V34CA

Atex Approved: Ex II 1D T120°C & Ex II 2D T80°C
 Zones 20, 21 & 22
 Power Supply: 12-24 VDC
 Output: Pulsed and continuous
 Detection range : 25 - 75 mm depending on target



CONTROL UNIT WATCHDOG ELITE

Atex certification: Ex II 2D T125°C for zones 21 & 22 for voltage 24 VDC
 Homologation Atex Ex II 3D T125°C for zone 22 for voltage 115-230 VAC
 Power Consumption: 12VA / 12 Watts
 ALARM Relay: normally open 10 A @240 VAC
 STOP Relay: normally open 10 A @240 VAC
 Enclosure: Polycarbonate
 Dimensions: 308 x 241 x 137 mm
 Weight: 2.8 Kg
 Entry: 2 holes dia 28 mm
 Protection IP 66, NEMA 12

