

The EC3165 Hopper Level Detector is a simple, robust device that reliably detects the level of particulate matter in negative pressure hoppers such as those on precipitators and baghouses.

Overview

The purpose of the EC3165 is to prevent damage to electrostatic precipitator (ESP) electrodes and electrical system, caused by over high dust levels.

The device operates by detecting the drop in vacuum that occurs when the standpipe inside the hopper is covered in dust. When the level drops, the material falls from the standpipe, allowing the negative pressure to be reestablished at the switch.

Its robust construction, with protection rating IP54, and wide operating margin means that it remains relatively unaffected by changes in ambient temperature, moisture and gas flow.

Its simple operating principle ensures a long and trouble-free life in demanding applications such as power station and cement kiln precipitator hoppers.

Immediate Detection of Hopper Buildup

The EC3165 detects hopper levels and indicates hopper buildup that may result from factors including:

- Failure of dust removal system.
- Foreign material entry and blocking.
- Corrosion holes in hopper.
- Ratholing in hopper.
- Failure of hopper heaters.

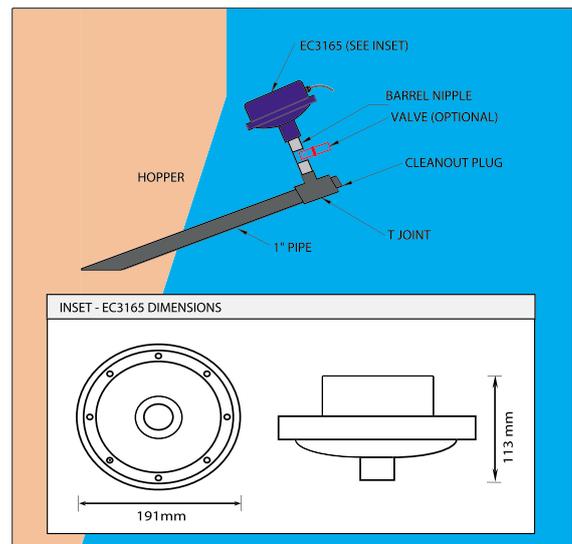
Installation Information

The EC3165 is mounted onto a one inch BSP threaded vertical pipe welded through a hole in the hopper. The pipe may be of any length outside the hopper, allowing the switch to be positioned adjacent to convenient walkways. The bottom end of the pipe is positioned at the desired detection level inside the hopper.

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EC3165 Installation and Specifications



Operating Pressure	-50 to -250 mm WC (adjustable)
Operating Temperature	0 - 100 °C
Dimensions	φ 191 mm and Height 113 mm
External Connection	1" BSP
Contact Switch rating	Max. 0.5 A 48 VDC, 3 A 48 VAC
Switch life	10,000 Operations
Cable	3 core 1.2 m long
Protection Rating	IP54
Net Weight	2 kg
Package Size	210 x 230 x 130 mm
Standard	  N14532