

4B Group Introduces IE-GUARDFLEX – Distributed Hazard Monitoring Solution

LEEDS, U.K. - 4B Group proudly announces the launch of their Distributed Hazard Monitoring Solution (DHMS) featuring the IE-GuardFlex. Leveraging advanced industrial Ethernet technology, the IE-GuardFlex control unit seamlessly connects and monitors sensors across multiple machines using 4B's state-of-the-art IE-Node technology. This robust system can be configured for multiple machines, IE-Nodes, and sensors, directly interfacing with machine control centres to initiate shutdowns upon detecting potential risks.

Ideal for central control rooms and "non-hazardous areas," the IE-GuardFlex connects to IE-Nodes in "at-risk zones" via industrial CAT6 Ethernet cables. Monitored machinery includes bucket elevators, enclosed and open conveyors, chain conveyors, rollers, and more. ATEX-certified sensors connected to local IE-Nodes monitor critical conditions like belt slip (SlipSwitch, Milli-Speed), belt misalignment (TouchSwitch, Bulldog), bearing temperatures (ADB, Milli-Temp), vibration (Milli-Vib), and blockages (Binswitch).

Engineers can easily locate and configure nodes using the intuitive 7" colour touchscreen interface. The system supports up to 3 different ALARM / STOP configurations per sensor, with output relays assignable to alarm and/or stop conditions per sensor or per machine. Common ALARM / STOP relays indicate alarms or stops across any connected sensor.

"The IE-GuardFlex system has been developed to empower facility engineering and maintenance staff to implement a comprehensive, de-centralised hazard monitoring system, using the simple and intuitive programming interface", explains Sam Payne, 4B Group CTO for electronics. "This eliminates the need to implement the hazard monitoring system into the plant process control system / PLC and hence means there is NO special PLC programming software required, No need for specialist and expensive control system engineers, NO additional PLC capacity and SCADA tags and NO plant disruption during implementation. Separating the plant control and hazard monitoring systems also provides an extra layer of redundancy and reliability."

More information 4B's website:

<https://go4b.co.uk/products/electronic-monitoring-equipment/hazard-monitors/ie-guardflex/534>



**4B GuardFlex
Distributed Hazard Monitoring Solution**

About 4B GROUP:

A subsidiary of The Braime Group, 4B GROUP has been an industry leader in developing high quality, innovative, and dependable material handling components for the agricultural and industrial sectors.

4B's product line ranges from elevator buckets, elevator bolts and drop forged conveyor chain to level monitors, speed switches and hazard monitoring systems. With offices in North America, Europe, Asia, Africa, Australia and the Middle East along with a worldwide distribution network, 4B can provide practical solutions for applications in any location.