Speed Monitor

The StedFAST heavy duty Speed Monitor is designed to monitor the speed of rotating shafts such as conveyor belt rollers in demanding environments such as mines, quarries, ports, cement plants and power stations.

The unit is housed in a stainless steel enclosure and has a flying lead, terminated in a connector for easy maintenance.

Sensors

The speed sensor enclosure must be fitted with the sensor device. There are two versions available, both are 30 mm diameter. One device is a two wire configuration and with a field effect transistor output.

The other device is a 5 wire device and has voltage free changeover contacts.

Specification of Sensors

PU1TZ(A) 2 wire 24 to 240 volt ac/dc.
Output rated at 200mA.

PU1TR(A) 5 wire 12 to 240 volt ac/dc.
Output rated at 3 amps 240 volts.

Both sensors are automatically calibrated with a magnet when the shaft is rotating at the desired speed. The Speed Sensor will then operate at 20% below the set speed.

Specification

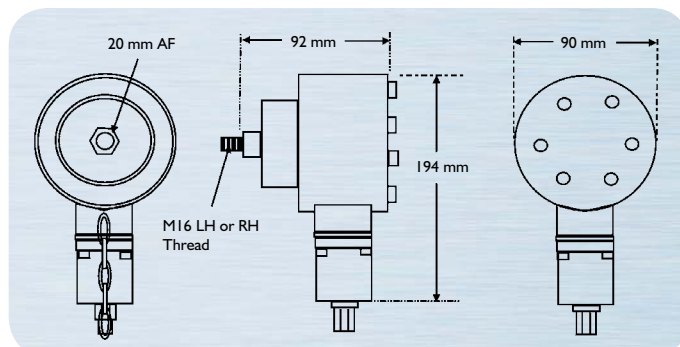|	
Fixing	M16 x 2mm stainless steel shaft, left or right hand thread
Enclosure	Stainless steel IP 64 rated
Bearing	Twin, single deep groove stainless steel ball races sealed for life
Speed monitor	Any Synatel barrel type 30 mm monitors can be used.
Speed range	5 to 3000 RPM
Internal targets	1, 2, 4 or 8 pulses per revolution
Output	Voltage free changeover contacts (5 wire) Or solid state switch output rated at 200 ma (2 wire)
Cable entry	M16 or M20 cable gland entry

Ordering details

Number of Pulses	Sensor Size	Mounting Thread
1	M30 - 30	R - M16 Right Hand
2	–	L - M16 Left Hand
4	–	–
8	–	–

Specifiy the number of pulses followed by the mounting thread.

For example: **WGHD4-30-R** specifies a Speed Monitor with 4 pulses per revolution, fitting for an **M30 sensor** and an **M16 right hand mounting thread**.

Then select the sensor type (2 wire or 5 wire).

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ISO9001·ISO14001

Davis Derby Limited

Davis Derby is a long established designer and manufacturer of intrinsically safe electronics and explosion-proof electrical equipment. All our equipment is designed for use in underground coalmining and other hazardous or demanding atmospheres. Davis Derby is also a leading provider of off-road vehicle driver access control and fleet management information systems. Our products are in service across the world in a variety of mining and arduous environments.

Davis Derby Limited comprises of 4 core strategic business units:

StedFAST™

Mines, quarries, steelworks, power stations and processing plants are demanding environments. Hazards are many and varied and nowhere more so than where bulk materials are being conveyed in the presence of personnel. Incidents involving product spillage, misaligned or torn conveyor belts and other mechanical malfunctions can cause injury to staff as well as costly downtime, damage to machinery and loss of revenue.

MineWATCH™

Mine productivity and personal safety have been priorities at Davis Derby for more that two decades. In this time we have led the way in product development, harnessing cutting-edge technologies and the potential of microprocessor based outstations.

Bespoke

With a long history of developing unrivalled safety, communication and monitoring products for hazardous, explosive and arduous environments, Davis Derby is uniquely positioned to offer a bespoke design and manufacturing service for industrial applications. Our engineers are also specialists in adapting existing technology to be suitable for operation in hazardous gas and dusty atmospheres and obtaining the appropriate certification to ATEX, IECEx, UL and CSA standards.

TruckLOG™

Designed with demanding materials handling environments in mind, the Davis Derby TruckLOG suite of modules tell you everything you need to know about who's driving your trucks – and how. It puts you firmly in control of driver access, shock reporting and investigation, driver training needs and vehicle service and maintenance schedules.

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