

Speed & Rotation Sensing Units

The RHB Series Speed Sensor

is a component part of our highly successful range of Belt Weighing Systems. Thousands of these units have been manufactured and are in use in more than 50 countries worldwide. These units were developed to work in the most hostile environments and the heavy duty construction is the key to their reliability and long working life.

Various models are available to suit specific applications and all of the units can be used with the new 712-S control relay.

RHB40-8-C

This is the Speed Sensor used with our Belt Weighing Systems. It is supplied with a "JockeyWheel Assembly" designed to run on the clean side of the return belt. The heavy duty wheel is 200mm in diameter and the "standard" unit generates 8 pulses per revolution of the wheel. The unit can be supplied complete with 7m of high quality, abrasion resistant cable, or it can be fitted with a weather resistant plug and socket for connection on site.

Order Codes:

RHB40-8-C Speed Sensor with Jockey Wheel Assembly - 8 pulse/rev - with 7m cable

RHB40-4-C Speed Sensor with Jockey Wheel Assembly - 4 pulse/rev - with 7m cable

RHB40-2-C Speed Sensor with Jockey Wheel Assembly - 2 pulse/rev - with 7m cable

If units are required with plug and socket connection please replace the "C" with a "P" ie. **RHB40-2-P**

RHS40-8-C

This unit has the same operation as RHB unit but it is supplied with an M12 thread for fixing onto the shaft of a drum or pulley. Again the unit is available with a 7m cable or a weather resistant plug and socket.

Order Codes:

RHS40-8-C Speed Sensor with M12 Socket Cap Screw - 8 pulse/rev - with 7m cable

RHS40-4-C Speed Sensor with M12 Socket Cap Screw - 4 pulse/rev - with 7m cable

RHS40-2-C Speed Sensor with M12 Socket Cap Screw - 2 pulse/rev - with 7m cable

If units are required with plug and socket connection please replace the "C" with a "P" ie. **RHS40-2-P**

Operating Voltage 5 - 24 VDC.

These units are fully serviceable. All parts can be replaced in minutes by unskilled staff at minimal cost.

RHS40

RHB40

712-S Control Relay

RHB40 in typical application

RHB Series Speed Sensor

The 712-S Board

The 712-S Board has been developed for use with the RHB40 range of speed sensors. In its "Standard" form it is designed to provide a relay closure when the sensor runs either over or under the setpoint speed. If the speed is between the Maximum and Minimum values the alarm will be automatically de-activated. Typically this would be used for monitoring the speed of a conveyor belt (or similar piece of equipment) and providing Belt Slip indication. The unit can be supplied as circuit only for panel mounting or in an IP65 enclosure.

Features

Speed Setpoint

The 712-S "self learns" the Speed Setpoint. Range 0 - 10 kHz.

Start Time

The period required for the equipment to reach the correct working speed. Variable from 1 to 60 seconds

Range

The maximum and minimum speeds are calculated as a percentage of the nominal setpoint speed. Eight values may be selected - 10% to 80% in 10% increments.

Filter Time

The filter time is the time that the alarm condition must exist before the relay is activated. Variable from 1 to 60 seconds.

Power Supply

80 - 250VAC 6W & 10 - 40 VDC (ideal for mobile plant applications)

Relay Output

1A 120VAC, 1A 24VDC, 2 pole change over, dry contact. Coloured LED status indicators.

Please visit our website where you will find full information about our products including copies of Manuals, Quick Guides, Wiring Diagrams, Diagnostic Data Sheets etc.

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