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SPEED TRANSDUCER

P/N – SPEEDTRANS(_DC)

RINGWAY PROXIMITY SPEED TRANSDUCER

DESCRIPTION:

The Ringway Speedtrans converts either an NPN or PNP proximity switch input signal to a 4-20mA DC output signal. Speedtrans units may be calibrated to give a 4-20mA for a range of frequency inputs from 0 – 10Hz to 0 – 1000Hz. If pre-calibrated the calibration setting is recorded on the 'Tested' sticker attached to the base. If site calibration is required the span pot can be accessed by lifting the lid of the unit. The input signal used for setting the span can be either the process signal or one generated by alternate means (e.g. signal generator). Test terminals give access to a precision 100-Ohm resistor connected in series with the output terminals. The output signal level can be measured with a multimeter connected between the Test terminal (T) and the 'Out +' terminal. The full range of the output signal (4-20mA) will produce a 0.4V to 2.0V voltage drop across these terminals. For calibration purposes the output should be connected as intended (e.g. to PLC). If the connection is not yet available the output terminals may be shorted to complete the output circuit and to generate a reading at the Test terminals. When the input signal is at a known level (e.g. 100%) and is steady the span pot should be adjusted to give the desired output level for that signal (e.g. 20mA or 2.0V @ the test terminals). The Sensor indication LED will flash in unison with the field signal at all times. The unit is DIN rail mounted and is available in both 110V/240VAC and 24VDC supply options (see diagrams overleaf).

FEATURES:

- **Simple, robust and functional.**
- 110/240VAC and 24VDC options available
- Caters for NPN or PNP inputs
- Easy span function – fixed zero setting
- On board test point terminals to measure output
- LED indication of sensor signal

APPLICATIONS:

Ringway has used Speedtrans units to provide accurate speed feedback signals into a controlling PLC in a wide range of installations since 1993. Applications include the accurate measurement of conveyor speed for acceleration control and slip detection and general motion monitoring.

BRIEF TECHNICAL SPECIFICATIONS:

Power Supply:	110V / 240VAC (24VDC = SPEEDTRANS_DC)
Input:	NPN or PNP proximity switch or signal
Input Range:	0 – 10Hz minimum or 0 – 1000Hz maximum
Span Adjustment:	See description notes
Output:	4-20mA
Maximum Output Load:	350ohms
Dimensions:	55mm (W), 75mm (H), 110mm (D)

