Zero Speed Switch with Digital Display and Retransmission O/P

SMARTsaa Zero Speed Switch with Digital Display and Retransmission O/P provides relay contact O/P with parallel 4-20 mA or MODBUS O/P to process the signal at remote location.

The digital display indicates equipment speed as well as set speed accurately. The device also actuates relay contacts at preset speed. Using these contacts, desired control action such as zero speed protection / under speed protection / over speed protection can be achieved. The retransmission O/P can be processed at remote place like PLC / DCS

Speed sensor is placed in close proximity of the rotating object. On this object, metallic plates are fixed. Sensor detects presence of metal objects which come within the range of their oscillating field giving rise to corresponding pulses. These pulses are fed to the control unit where they are compared with the standard pulses to sense the speed. Output is in the form of relay contact.
In case of under speed – zero speed application built-in initial by-pass time delay is provided to allow the rotating machinery to attend the desired speed. If after this set time the motor does not attend the set speed, the relay is de-energized and the switch resets automatically when the desired speed is attained.

This model also provides more features like field adjustable scaling factor, keypad setting and Universal Speed Range etc.

SPECIFICATIONS: SMARTsaa ESM: Please refer our catalogue and Ordering Proforma for model selection

- Duty : Under Speed Monitoring with Digital Display
- Control Supply : 24 V DC / 110/230 VAC Please specify any one
- Enclosure for control unit: Cast Al, IP 65, Field Mounting / Back Panel Mounting / Din Rail / Flame Proof
- Control O/P : 2 NO + 2 NC Potential free Relay Contact
- Retransmission O/P : 4-20 mA / MODBUS Please select suitable model from Ordering Proforma
- Speed Range : 5-5000 RPM
- Speed setting : Key Pad
- Contact rating : 5 Amp. Resistive at 230 V AC
- With built-in initial by-pass delay facility of 3-30 Secs. For under speed Sensing duty
- Enclosure : Field Mounting / Din Rail / Flameproof
- Sensor Probe : Inductive Type, M30, with 2 Mtr, 3 core, PVC cable,
- Sensing Range 10-12 mm, Effective: 7-10 mm
- Other sensors are also available



Cast Al Field Mounted



Din Rail Mounted



Polycarbonate Field Mounted



Back Panel Mounted

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