Accuracy

Motion Sensors

Stopped Motion Monitor - ROTASTOP3 Self-contained





- Self-contained, no moving parts
- Universal voltage, two wire operation
- Simple, low-cost installation
- No contact with moving parts

L = 95. Dia. = M18 (overall)

The ROTASTOP SU1MZ is ideal for monitoring chain- or gear-driven machinery such as gearbox drives, screw conveyors etc. but is suitable for almost any application where stoppage detection is needed.

Target

Enclosure

Supply Ambient temperature Operating speed Protection Output	24 to 240V ac/dc -15°C to +60°C 15 to 3600 ppm IP65 Normally closed
Output rating	when running 1.6mA min, 200mA max (volt drop 8V)
Operating distance	8mm ferrous metal

	maximum range
Time delay	4 sec.
Start up delay	4 sec.
Cable	2 core, PVC sheathed,
	2m length
Indication	LED indication of input

18mm dia target for

pulses and output energised

SYNATEL

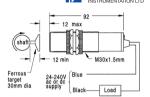
Moulded polycarbonate

Mftrs.		Price Each			
List No.	Order Code	1+	5+	10+	
SU1MZ	705-9220				

Underspeed Monitor - ROTASLIP Self-contained



- Automatic calibration at 20% underspeed
- Microprocessor controlled
- Universal voltage, two wire operation
- No contact with moving parts



Note: The load must have the same voltage rating as supply being used.

The ROTASLIP self-contained underspeed monitor detects slowdown or stoppage of rotating machinery. It is ideal for monitoring the rotation of belt conveyors, grain elevators, fans, mixers or grinders and is suitable for many other industrial applica-

Supply	24 to 240V ac	Operating distance	15mm, ferrous metal
Ambient temperature	-15°C to +60°C	Target	20mm dia. target for
Operating speed	10 to 3600 ppm		maximum range
Protection	IP65	Startup delay	0 to 30 sec
Output	Normally closed at	Cable	2m, 2 core,
	set speed		PVC sheathed
Output rating	1.6mA min, 200mA max.	Accuracy	±2% or set speed
	(volt drop 8V)	Indication	LED indication of input
Output calibration	Automatic at 20%		pulses and output energised
·	below nominal	Enclosure	Moulded polyester

Mftrs.	Price Each			
List No.	Order Code	1+	5+	10+
PU1TZ	706-0490			

Programmable Underspeed Monitor - ROTAMATIC Self-contained



- Replaces existing limit switch packages
- Microprocessor controlled
- Automatic calibration at 20% underspeed
- Universal voltage operation
- Relay output

 $H=40,\ W=40,\ L$ (overall) = 132, Fixing centres = 60 30 (M6), Cable entry = 20mm tapped

The ROTAMATIC underspeed monitor is a microprocessor-controlled, self-contained unit capable of detecting over a wide speed range. It is ideal for monitoring the rotation of conveyors, elevators, fans, grinders and mixers and provides a relay output which can be used in stop circuits or alarm operation.

24 - 240V ac. 12 - 240V do Supply Ambient temperature Operating speed Protection Output Output calibration Operating distance Target Startup delay 0 to 30 sec Termination

-40°C to +70°C 10 to 3600 ppm

> SPC0 relay 3A 240V ac. output energised at set speed Automatic at 20% below set speed, pushbutton se

15mm, ferrous metal

30mm dia. target for maximum range

2m PVC cable $\pm 2\%$ of set speed

Indication LED indication of input pulses and relay energised Enclosure

Moulded glass filled polyester

SEN302

SYNATEL

Price Each Mftrs Order Code 10+ List No. 1+ 5+ PU1DR 725-6280

Gear Tooth Sensor

Honeywell

Accurately senses the movement of ferrous metal targets up to 100kHz Reverse polarity protected and EMI resistant

Connections: Black/Brown = +ve White = 0 Black - ve

Probe L = 31.8, Dia. = 17.9, Mounting hole dia. = 7.0, Centres = 22.0, Leads L = 140

Magnetically biased Hall effect device. The sensor contains a specially designed I.C. with discrete capacitor and biased magnet sealed in a probe type package

Applications: Machine tool gearboxes, automotive, tachometers, generators, compressors, off road vehicles, flywheels and engine test beds.

4.5 to 24V do Supply voltage Supply current 10mA typ., 20mA max NPN open collector, 40mA max. Output Temperature range -40°C to +150°C

Pulsed and reverse polarity transients Sensing distance

+60V dc, -40V dc 2.0mm max.

Price Each Mftrs List No. **Order Code** 5+ 10+ 25+ IGT101DC .731-900

Hall Effect Vane Sensors



178-876 178-8 H = 10.9, W = 13.2, D = 19.1, Slot W = 2.5, Slot D = 7.4 Fixing centres = 14 (dia = 2.8)

Honeywell

723-4806 PCB and base W = 19.8, D = 19.1 Fixing centres = 14 (dia. = 2.8)

-40°C to 150°C

- Useful as limit switch by operating with single large vane
- Useful as tachometer sensor by operating with toothed wheels
- Wide temperature range

Supply current

for 723-4806

- Suitable in dusty or high ambient light environment where an optical sensor would
- Transient and reverse polarity protection

Hall effect vane sensors include a Hall effect transducer and a magnet, and are operated by passing a ferrous vane through the gap between the two.

The sensor is housed in a miniature and rugged sealed package.

The connector terminated type has sensor and 4-pin connector mounted on PCB fitted

Temperature range

onto base. 4.5 to 26.5V dc 5 to 18mA Current output 50m∆ Supply voltage

SEN57X Mftrs. Price Each List No. Order Code Termination 25+ 100+ 4AV/20F 178-876 PCR Leadwire 4AV16F 178-877 4AV20F-T2 723-4806 Connector Mating connector

Ultrasonic Transducers

135-2428



46F527

10mm Dia. Type H = 6.6, dia. = 9.8 Leads L = 8.5, dia. = 0.5 Lead spacing = 4.8

10mm Housing Bracket H = 19, W = 12, D = 16 Mtg = 4.5 dia



16mm Dia. Type (Open) H = 12, Dia. = 16 Leads L = 10, Dia. = 1.2 Lead spacing = 10

18mm Dia, Type H = 12, Dia. = 18 Leads L = 12.6, Dia. = 1.2 Lead spacing = 11.5

- Typical applications: remote control, proximity sensors, intruder alarms, motion detectors and data transmission
- Enclosed type can be used for outdoor installation or in a dusty atmosphere. Not recommended to be used under water
- Pair of housings are suitable for mounting 10mm dia. transducers. The housing enables the transducer to be aligned in a number of fixed positions relative to its mounting bracket, and is ideal for non-PCB applications