

SPEED MONITORING RANGE

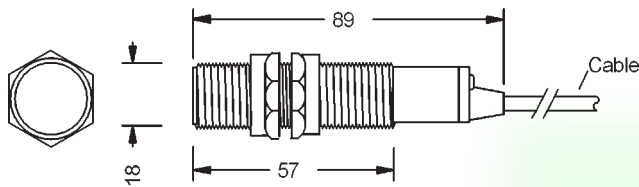
A range of stopped motion, over or underspeed monitors, designed and manufactured in the UK by Synatel, available as self contained units or in modular form with separate proximity sensors. ATEX/IEC Ex units available for hazard areas.

ROTASTOP STOPPED MOTION SU1MZ(A)

An 18mm dia unit, fully self contained, incorporating a proximity sensor and associated stopped motion circuitry. The unit detects a stud on a shaft and the output maintains it's 'on' state whilst the target is moving. Ideal for chain & gear driven shafts. For belt driven applications see PU1TZ(A)/PU1TR(A).



Dimensions



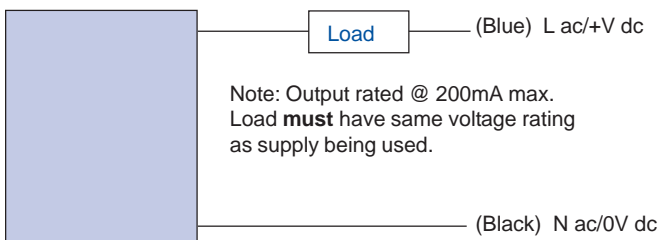
SPECIFICATION - GENERAL

Supply	24-240V ac/dc.
Operating Temp	-15°C to +50°C.
Operating Speed	15-3600 PPM.
I.P. Rating	IP65.
Operating Distance	8mm max (ferrous target - 18mm dia. min.)
Output	Two wire FET. Maximum. current 200mA. Vdrop= 8V maximum.
Output State	Output ON (energised) while shaft running and at least one pulse received within every 4 second.
Time Delay	4 seconds. Output de-energises after this time period if no input is detected. Alternative delays available.
Start-Up Delay	On application of supply. Output energises for 4 seconds to allow machinery to achieve normal running speed.
Indication	LED indication of input pulses and output energised.
Weight	260g.

Note: **SU1MZ(A)** is also available with Gas Hazard approval - unit becomes **ID/E1MO(AG)**. Suitable for gas group 2B. Supply **must** be fused (see manual supplied with unit). All other details are as stated above.

Connections

2 wire SU1MZ(A) & PU1TZ(AI) units

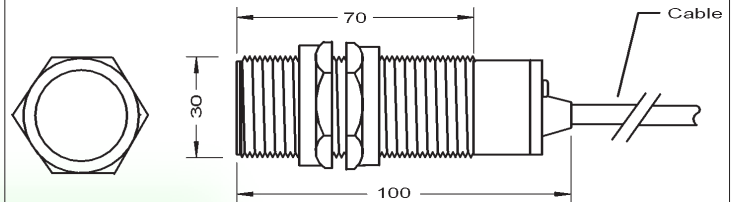


ROTASLIP UNDERSPEED PU1TZ(AI)/PU1TR(AI)

A 2 wire, FET output - PU1TZ(AI) or a 5 wire, relay output - PU1TR(AI) underspeed sensor. The unit detects a stud or bolt on a shaft and indicates a fault condition if input speed falls by 20% or more below set running speed.



Dimensions



SPECIFICATION - GENERAL

Supply-PU1TZ(AI)	24-240V ac/dc.
Supply-PU1TR(AI)	12-240V dc/24-240V ac
Operating Temp	-15°C to +50°C.
Operating Speed	10-3600 PPM.
I.P. Rating	IP65.
Operating Distance	12mm max (ferrous target - 25mm dia. min.)
Output-PU1TZ(AI)	Two wire FET. Maximum current 200mA. Vdrop = 8V maximum.
Output-PU1TR(AI)	SPCO relay. 3A 240V ac max. Non-inductive.
Output State	Output energised @ set running speed, de-energises if rotation falls 20% or more below set speed.
Calibration	Start-up delay and set running speed user programmable using a magnet (supplied) applied to a target area on body of sensor. Automatically calibrates to 20% under normal running speed.
Start-Up Delay	Programmable start-up delay. Output energises for time period irrespective of incoming pulse signal, allows machine to achieve running speed. Max. 30 seconds.
Indication	LED indication of input pulses and output energised.
Weight	300g.

5 wire PU1TR(AI) units

