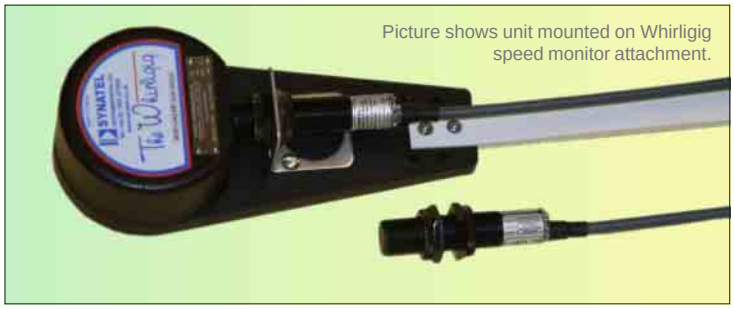
SPEED MONITORING RANGE

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.

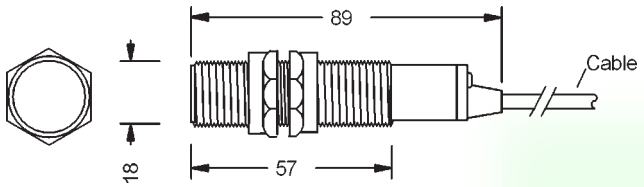
ROTASTOP STOPPED MOTION SU1MZ(A)

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).



Picture shows unit mounted on Whirligig speed monitor attachment.

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.

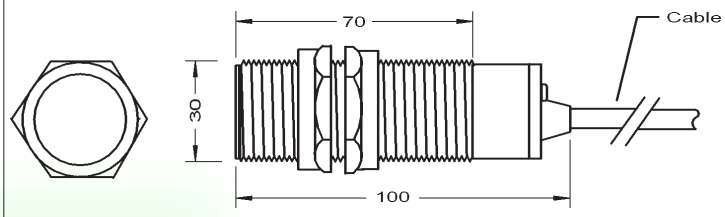
Note: **SU1MZ(A)** is also available with Gas Hazard approval - unit becomes **ID/E1MO(AG)**. Suitable for gas group 2B. Supply **must** be fused (see manual supplied with unit). All other details are as stated above.

ROTASLIP UNDERSPEED PU1TZ(A)/PU1TR(A)

A 2 wire, FET output - PU1TZ(A) or a 5 wire, relay output - PU1TR(A) 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.

Picture shows unit mounted on Whirligig speed monitor attachment.

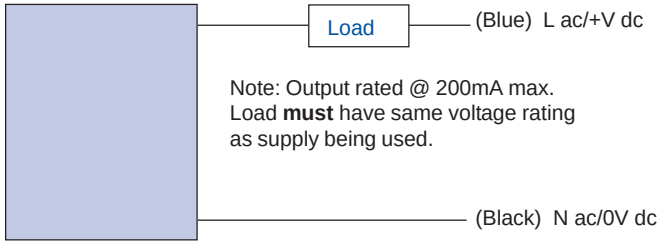
Dimensions



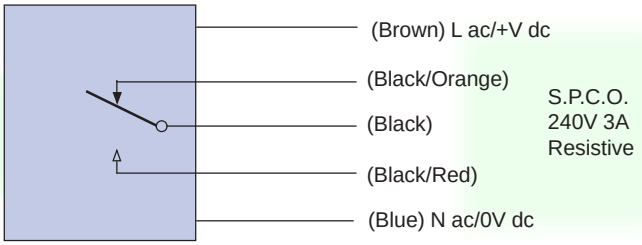
SPECIFICATION - GENERAL	
Supply-PU1TZ(A)	24-240V ac/dc.
Supply-PU1TR(A)	12-240V dc/24-240V ac
Operating Temp	-15°C to +50°C.
Operating Speed	10-3600 PPM.
I.P. Rating	IP65.
Operating Distance	12mm max (ferrous target - 25mm dia. min.)
Output-PU1TZ(A)	Two wire FET. Maximum current 200mA. Vdrop = 8V maximum.
Output-PU1TR(A)	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 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.

Connections

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



5 wire PU1TR(A) units



All dimensions shown in mm unless otherwise specified.