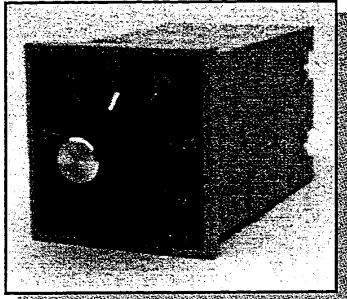


FSRS Shaft Rotation Sensor



The FSRS shaft rotation sensor is specifically designed to prevent access to a normally rotating machine until it has slowed to a safe speed. An adjustable potentiometer on the fascia enables the sensor to be set for an appropriate minimum speed which may be considered as safe for the operator to gain access. If the sensor does not receive a pulse within the time set by the potentiometer, its output will energise and this signal can be

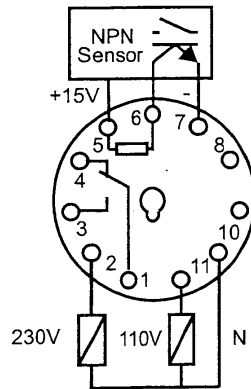
used to disable a guard. By using the normally closed contacts the sensor becomes fail-safe in the event of loss of power.

Specification

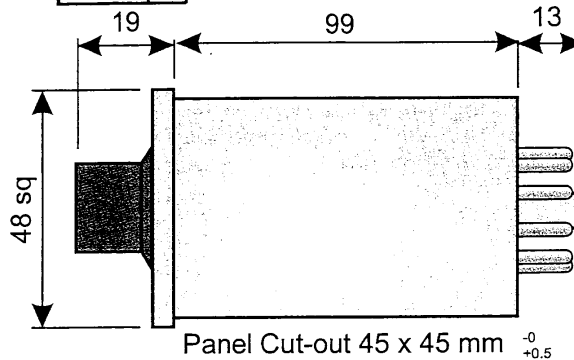
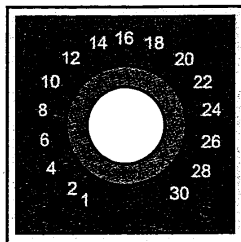
Supply voltage :	110/230(220-240)Vac @ 50/60 Hz
Power drain :	4VA
Time delay :	1 to 30 seconds
Sensing speed :	Calculated by $S_{min} = 60/nT$ rpm where n = No. of pulses per revolution T = time set on potentiometer
Min. Pulse width:	3 msec (for 50% duty cycle). To calculate the minimum 'flag' width (W_f) use the formula $W_f = \pi r/10$ mm(50% duty) where r = radius of shaft
Input sensor:	Any volt-free contact(no bounce) or 3-wire active sensor with a power consumption of < 25mA at 15Vdc. See SI or SC series sensors on pages 31 - 33.
Output rating:	SPCO relay rated at 5A/240Vac/30Vdc resistive
Electrical life:	100,000 ops at rated load
Ambient range:	10 to 50°C non-condensing
Approvals:	Conform to CE emc EN50081-1 & EN50082-1 and low voltage EN6010-1 directives

ANALOGUE CONTROLLERS

Connection Diagram



Dimensions



Standard Item

Type	Delay	Part Number
Shaft Rotation Sensor	30 sec	FSRST30SLP-110/230VAC