



Slipswitch

Detect Dangerous Underspeed Slow Down Conditions

APPLICATION

The M300 Slipswitch is a simple inductive shaft speed monitoring device. The self-contained unit has a single set point, which signals when the shaft speed has dropped by 20% of normal running speed. It is used for detecting dangerous slow downs and underspeeds on conveyors, bucket elevators, airlocks, mixers, fans, grinders and many other machines.

METHOD OF OPERATION

An inductive sensing device located in the nose of the M300 enclosure will detect a metal target. This target can be an existing bolt head or device attached to a shaft. During installation the M300 is set to the normal machine shaft RPM by calibrating with the magnet provided. The internal microprocessor sets the underspeed output to operate at exactly 20% below normal machine shaft RPM. So users are able to use the M300 output for automatic shutdown during a dangerous underspeed or belt slip condition.

FEATURES

- ▶ Underspeed Detection at 20%
- ▶ Totally Sealed Construction (Submersible)
- ▶ Microprocessor Accuracy
- ▶ LED Indication
- ▶ Ex II 1D T100°C
- ▶ IP65 Protection

PART NUMBERS/ACCESSORIES

- ▶ M3001V10AI Slipswitch M300 2-Wire
- ▶ M3005V10AI Slipswitch M300 5-Wire
- ▶ WG2A-BR Whirligig (target/bracket/guard)
- ▶ MAG2000 Mag-Con Magnetic Connector for Whirligig

Detailed specification, wiring diagrams and installation/operating instructions available immediately upon request.

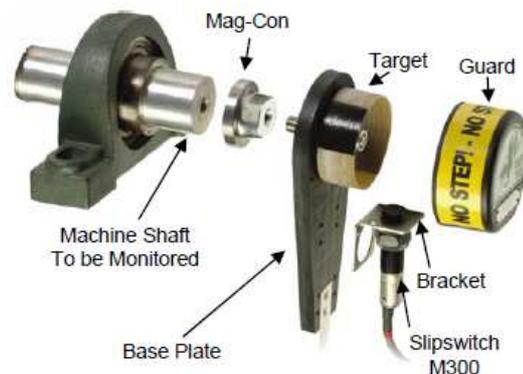


CLASS 2 div. 1 groupe E,F,G



IECEx

ATEX approved
Ex II 1D T100°C-IP 65-ZONE 20



Slipswitch M300 shown with optional Whirligig and Mag-Con

(Used for simple and reliable installation on shaft speed monitoring applications)

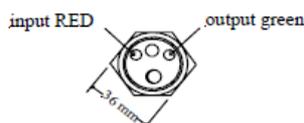
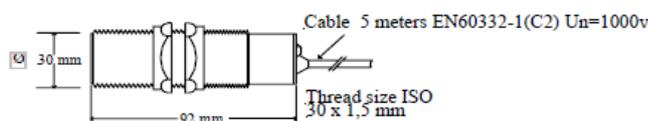


TECHNICAL SPECIFICATIONS

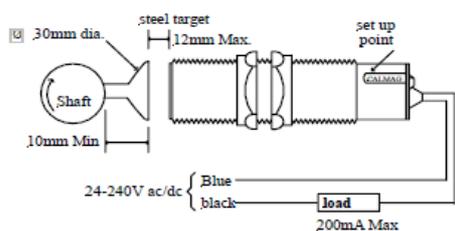
Slipswitch – Detect Dangerous Underspeed Conditions

SPECIFICATION		
Type	M3001V10AI	M3005V10AI
Approval	Ex II 1D T100°C Tamb -15°C à +50°C BAS03ATEX0674X	Ex II 1D T100°C Tamb -15°C à +50°C BAS03ATEX0674X
supply	24-240 Vac/dc	12-240 Vdc 24-240 Vac
Supply rating	2 VA	
Output	FET	S.P.C.O relay
Protection	IP 65	
switching capacity	200 mA Max.	contact relay 3A 240Vac non inductive
saturation voltage	5 V max.	
Cable	2 conductor with 5 meters cable	5 conductor with 5 meters cable
LED	red : target sensed green : set speed	
operating setting	20% en dessous de la vitesse calibrée	
Plage d'impulsions	10 à 3600 impulsions/minute	
start up delay	set up 0 à 60 secondes	set up 0 à 30 secondes
sensing range	12 mm max on ferrous metal	

Dimensions

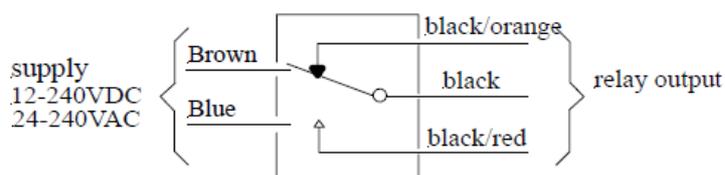


Connections



M3001V10AI

Connections



M3005V10AI