

Flame Proof Worm Limit Switch (IIA,IIB)



Introduction

Flame-proof Worm Drive Limit Switch FLP-FG1 is used to trip motor supply when the moving loads reach the extreme end positions of working zone. These are suitable for use in explosive gases, as specified zone 1 Gas group IIA, IIB, as per IS/IEC 60079-0-2004 & IS/IEC 60079-1-2007.

Operation:

A two (or more) Contact elements are operated by respective rotating cams, suitably adjusted on a cam-shaft. Which rotates with fixed speed ratio of the drive motor shaft. The cams can be step lessly positioned so that they trip motor supply and stop the motion at the set point of travel.

The FLP-FG1 limit switch with IP-55 degree of protection are available in desired NO/NC contacts combinations as specified gear ratio.

Mechanical Data

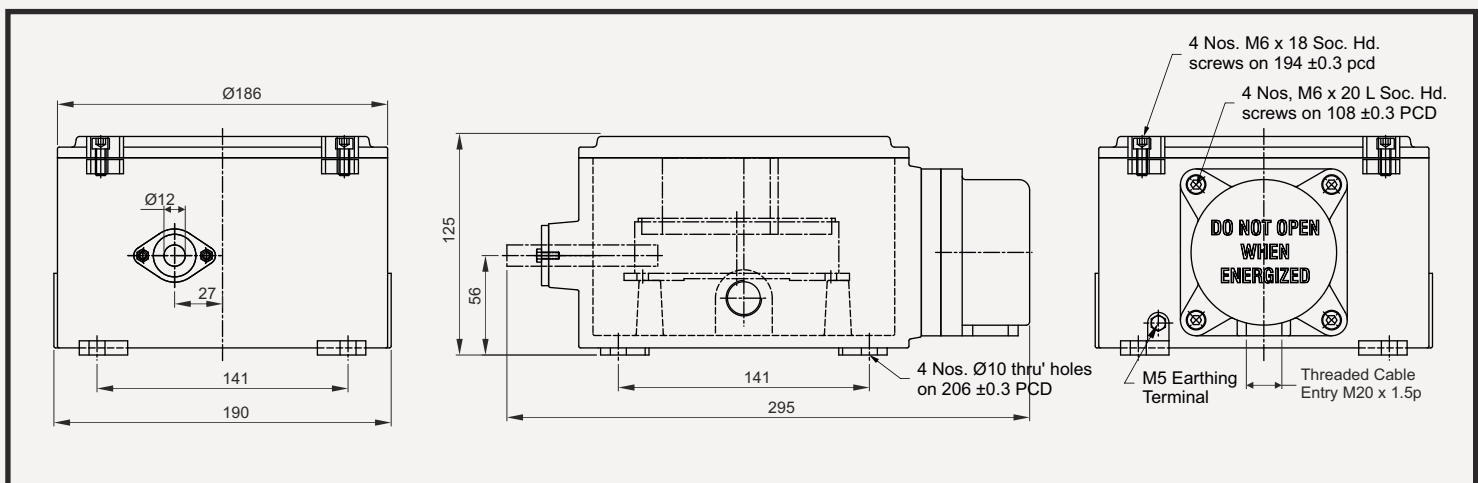
Ratios	Effective Rotations	Useful Rotations	2 Contacts Model	4 Contacts Model
25:1	25	20	FLP-FG-25P2	FLP-FG-25P4
50:1	50	40	FLP-FG-50P2	FLP-FG-50P4
100:1	100	80	FLP-FG-100P2	FLP-FG-100P4
200:1	200	160	FLP-FG-200P2	FLP-FG-200P4
400:1	400	320	FLP-FG-400P2	FLP-FG-400P4

Flame Proof enclosure constructed in accordance with provisions as specified in IS/IEC 60079-0-2004 & IS/IEC 60079-1-2007



Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Worm Drive Limit Switch
Zone	Zone 1, Gas Groups I, IIA & IIB
Model	FLP-FG1
Voltage	500 VAC MM
Phase/Frequency	10 A AC
Ambient Temperature	-20°C + 40°C
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55 (IEC 60529 (1989) /IS:12063-1987)
Cable Entry	M 20 Single
IS -	IS/IEC 60079-0-2004 IS/IEC 60079-1-2007
BIS License No.	CM/L-7200042490 as per IS/IEC 60079-1-2007
Certificate No.	10/1435 Date: 21-02-2011 Central Institute of Mining & Fuel Research



Speed-O-Controls Pvt. Ltd.

H. O. Unit - I: C-15/16, Nand Jyot Industrial Estate, Andheri-Kurla Road, Mumbai - 400072,
Tel.: (022) 42469700-30
Fax: (022) 42469797
E-mail: sales@socgroup.in

Unit - II: Plot No. 4912, G. I. D. C., Phase IV, Vatva, Ahmedabad - 382445
Tel.: (079) 40083201/2/3/4,
Fax: (079) 25841056,
E-mail: sales.amd@socgroup.in

Visit us at :
www.speedocontrols.com
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