

Flame Proof IIC Worm Drive Limit Switch



Introduction

Flame-proof **Worm Drive Limit Switch** FLP-FG2 is used to trip motor supply when the moving loads reach the end positions of the working zone. These are suitable for use in explosive gases, as specified zone 1 Gas group IIC, as per IS/IEC 60079-0-2017 & IS/IEC60079-1-2014.

Operation

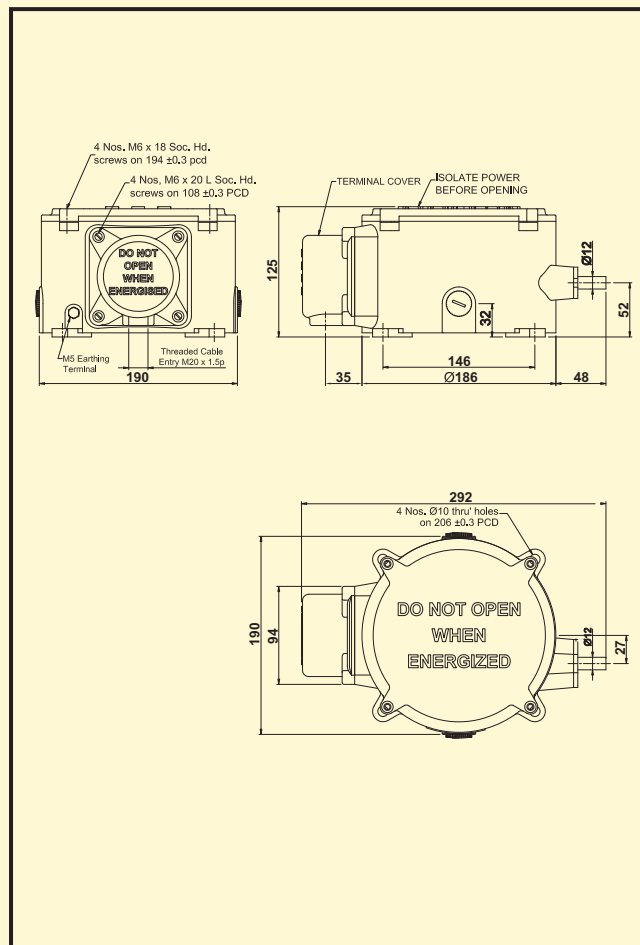
A two Contact elements are operated by respective rotating cams, suitably adjusted on a cam-shaft. Which rotates with a fixed speed ratio of the drive motor shaft. The cams can step Lessly positioned so that they trip motor supply and stop the motion at the set point of travel. The FLP-FG2 limit switch with IP-54 degree of protection is available in desired NO/NC contact combinations are 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



G.A.Drawing



Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Worm Drive Limit Switch
Zone	Zone 1, Gas Groups IIC
Model	FLP-FG1-IIC
Voltage	500VAC MM
Current	10 A AC max
No of Contacts	2NO or 2NC
Ambient Temperature	T6
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55(IEC 60529(1989)
Cable Entry	M 20 Single
IS	IS/IEC 60079-0-2017 IS/IEC 60079-1-2014 IS/IEC 60529 : 2001 (Reaffirmed 2014) IS/IEC 60079-31 : 2013
BIS License No.	CM/L-72000208195 20-07-21
Certificate No.	IN/CIMFR/TR21/R/418 Date: 06-05-2021 Central Institute of Mining & Fuel Research
Petroleum & Explosive Safety Organization (PESO)	A/P/HQ/GJ/104/5699(P455000) Date:26/09/2019