

# Flame Proof IIA / IIB Geared Limit Switch



## Introduction

Flame-proof **Rotary Geared Limit Switch** FP GRLS 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 Gas groups IIA and IIB, as per IS/IEC 60079-0-2017 & IS/IEC60079-1-2014.

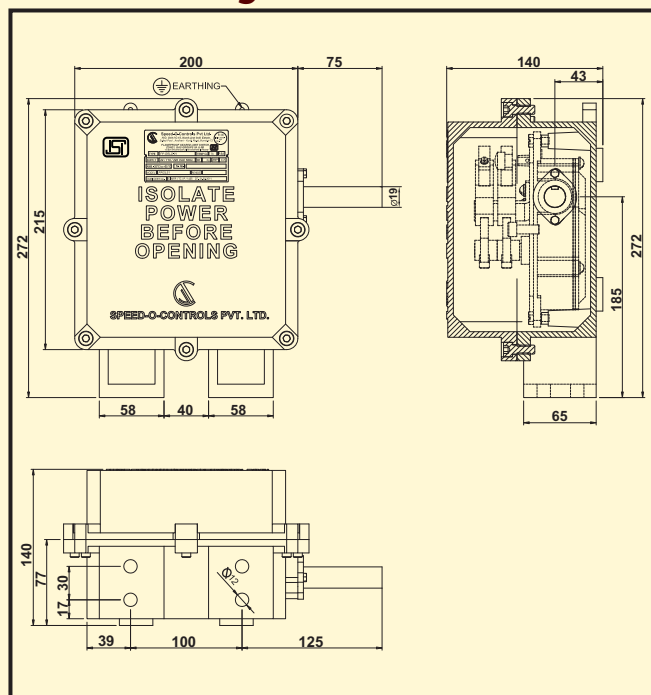
## Operation:

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 FP GRLS limit switches with IP-55 degree of protection are available in desired NO/NC contacts combinations are specified gear ratio.

## Mechanical Data

Ratios	Effective Rotations	Useful Rotations	2 Contacts Model	4 Contacts Model
48:1	42	40	FRGLS/48/2SH	FRGLS/48/2SH
60:1	52	50	FRGLS/60/2SH	FRGLS/60/2SH
96:1	84	80	FRGLS/96/2SH	FRGLS/96/2SH

## G.A.Drawing



## Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Rotary Geared Limit Switch
Zone	Zone I, Gas Groups IIA & IIB
Model	FPGRLS/2HS
Voltage	220V AC
Current	40 A AC max
Ambient Temperature	T6
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55
Cable Entry	M 20 Single
IS	IS/IEC 60079-0-2017 IS/IEC 60079-1-2014
BIS License No.	CM/L-72000208195 20-07-21
Certificate No.	KLPL/Ex/16-053X Date: 12-01-2021 Karandikar Laboratories Pvt.Ltd
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