



**SPEED-O-CONTROLS
PVT. LTD.**



FLAMEPROOF EQUIPMENTS

**FLAMEPROOF
LIMIT SWITCHES
GAS GROUP (IIA & IIB)**



DISCOVER OUR RANGE OF FLAMEPROOF FOR CRANES

V6

INDEX

GEARED LIMIT SWITCH

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LEVER LIMIT SWITCH

[\(CLICK HERE\)](#)



WEIGHT LIMIT SWITCH

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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.

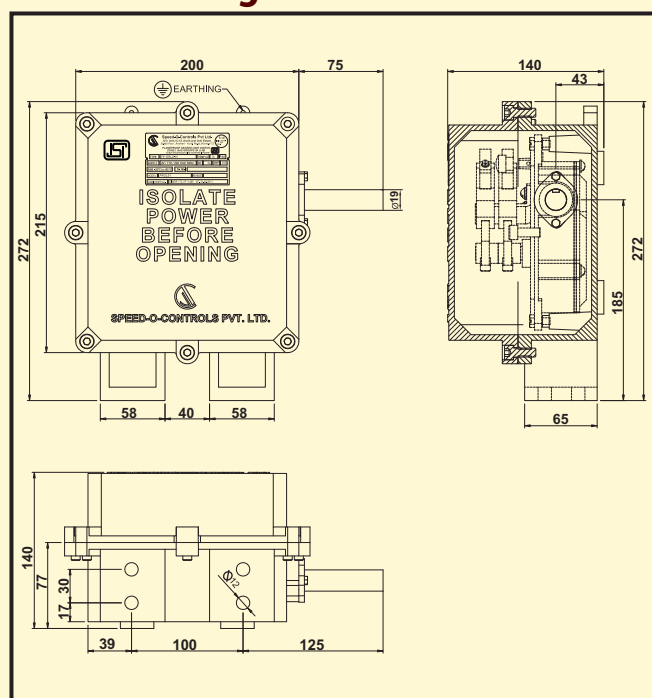
Operation:

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



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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	FP-GRLS-01
Voltage	220V AC
Current	40A 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-7200208195 20-07-27
Certificate No.	KLPL/Ex/16-053X Date: 12-01-2021 Karandikar Laboratories Pvt.Ltd
Petroleum & Explosive Safety Organization (PESO)	A/P/HQ/GJ/104/5969 (P529363/2) Date: 09/11-2022

Flame Proof IIA / IIB Lever Limit Switch



Introduction

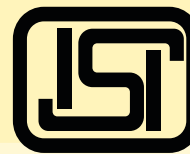
Flame-proof **Lever Limit Switch** is used to trip motor supply when the moving loads reach the extreme end positions of working zone. These are suitable for use in explosive gases, as specified Gas groups IIA and IIB, as per IS/IEC 60079-0-2017 & IS/IEC60079-1-2014.

Operation

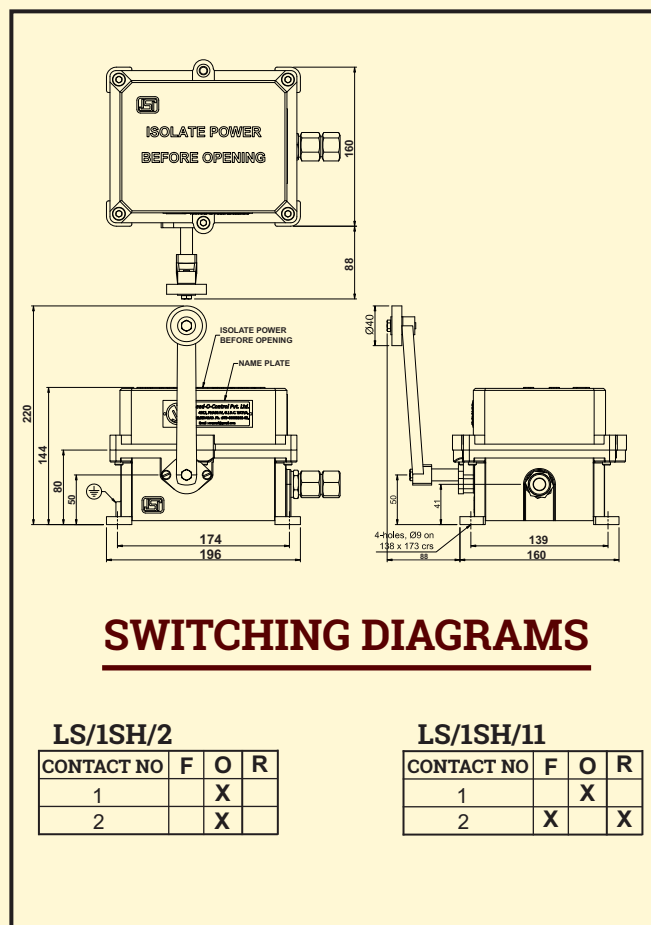
A two (NC) Contact elements are operated by respective rotating cams, suitably adjusted on a square cam-shaft. When a cam on the moving load hits the weight of the limit switch and rotates the square cam shaft, which in turn operates the change over contacts.



[CLICK HERE FOR INDEX](#)



G.A.Drawing



Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Lever Limit Switch
Zone	Zone 1, Gas Groups IIA & IIB
Model	FLS/2SH/2
Voltage	220V DC/660V AC
Ambient Temperature	T6
Current	40 A AC max
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-54
Cable Entry	M 20 Single
IS	IS/IEC 600079-0-2017 IS/IEC 600079-1-2014
BIS License No.	CM/L-72000208195 DATE-20-07-21
Certificate No.	KLPL/Ex/16-065X Date: 12-01-2021 Karandikar Laboratories Pvt.Ltd
Petroleum & Explosive Safety Organization (PESO)	A/P/HQ/GJ/104/5699(P455000) Date:09/11/2022

Flame Proof IIA / IIB Weight Limit Switch



Introduction

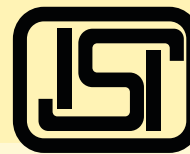
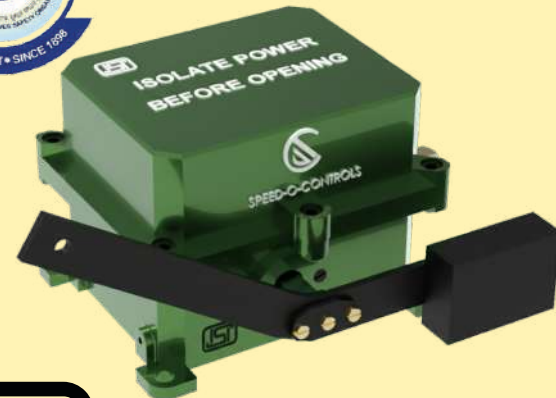
Flame-proof Counter Weight Operated Limit Switch is used to trip motor supply when the moving loads reach the extreme end positions of working zone. These are suitable for use in explosive gases, as specified Gas groups IIA and IIB, as per IS/IEC 60079-0-2017 & IS/IEC 60079-1-2014.

Operation

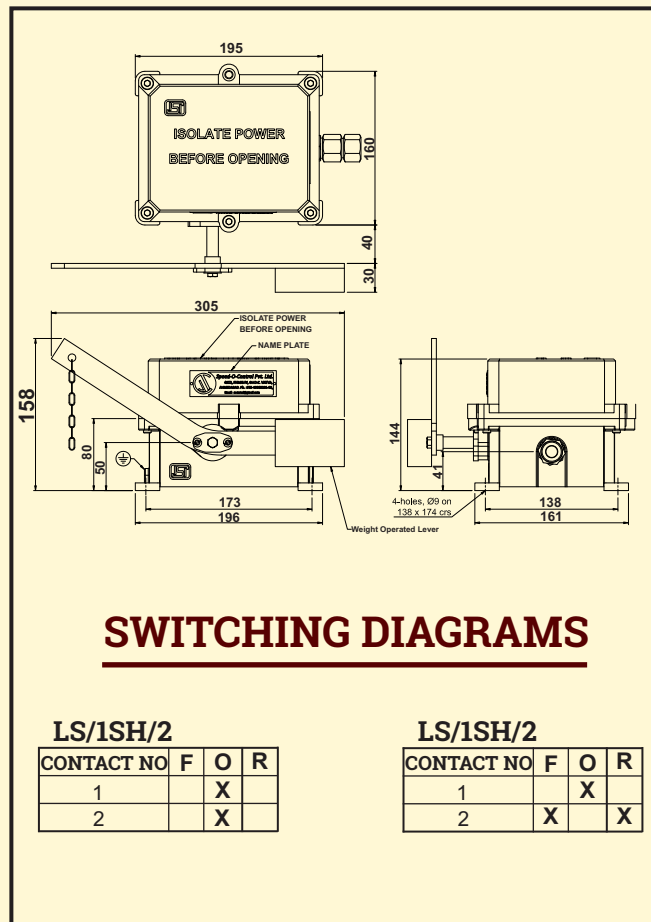
A two (NC) Contact elements are operated by respective rotating cams, suitably adjusted on a square cam-shaft. When a cam on the moving load hits the weight of the limit switch and rotates the square cam shaft, which in turn operates the change over contacts.



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G.A. Drawing



Technical Data

Explosive Atmospheres Part I Equipment Protection By Flameproof Enclosure "d"	
Product	Weight operated limit switch
Zone	Zone I, Gas group IIA & IIB
Model	FLP-WLS-IIA-IIB
Voltage	220V DC/ 660V AC
Current	40A AC Max
Enclosure	Aluminum Alloy LM 4
Ingress Protection	IP-54 as per IS/IEC-60529-2001
Cable Entry	M 20 Single
IS	IS/IEC-60079-0-2017 IS/IEC-60079-1-2014
Certificate No FLP Enclosure	KLPL/Ex/16-065X Date : 12-01-2021 Karandikar Laboratories Pvt. Ltd
BIS License No.	CM/L-7200208195 DATE- 20-07-2021
PESO Certificate No	A/P/HQ/GJ/104/5969/P529363/5 DATE - 09-11-2022
Ambient temperature	T6

SPEED-O-CONTROLS PVT. LTD.

CRANE CONTROL SOLUTIONS

CRANE CONTROL GEAR



POWER DISTRIBUTION



RADIO REMOTE CONTROLS



JOYSTICK CONTROLLER



FLAMEPROOF PRODUCTS



OTHER ELECTRONICS



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