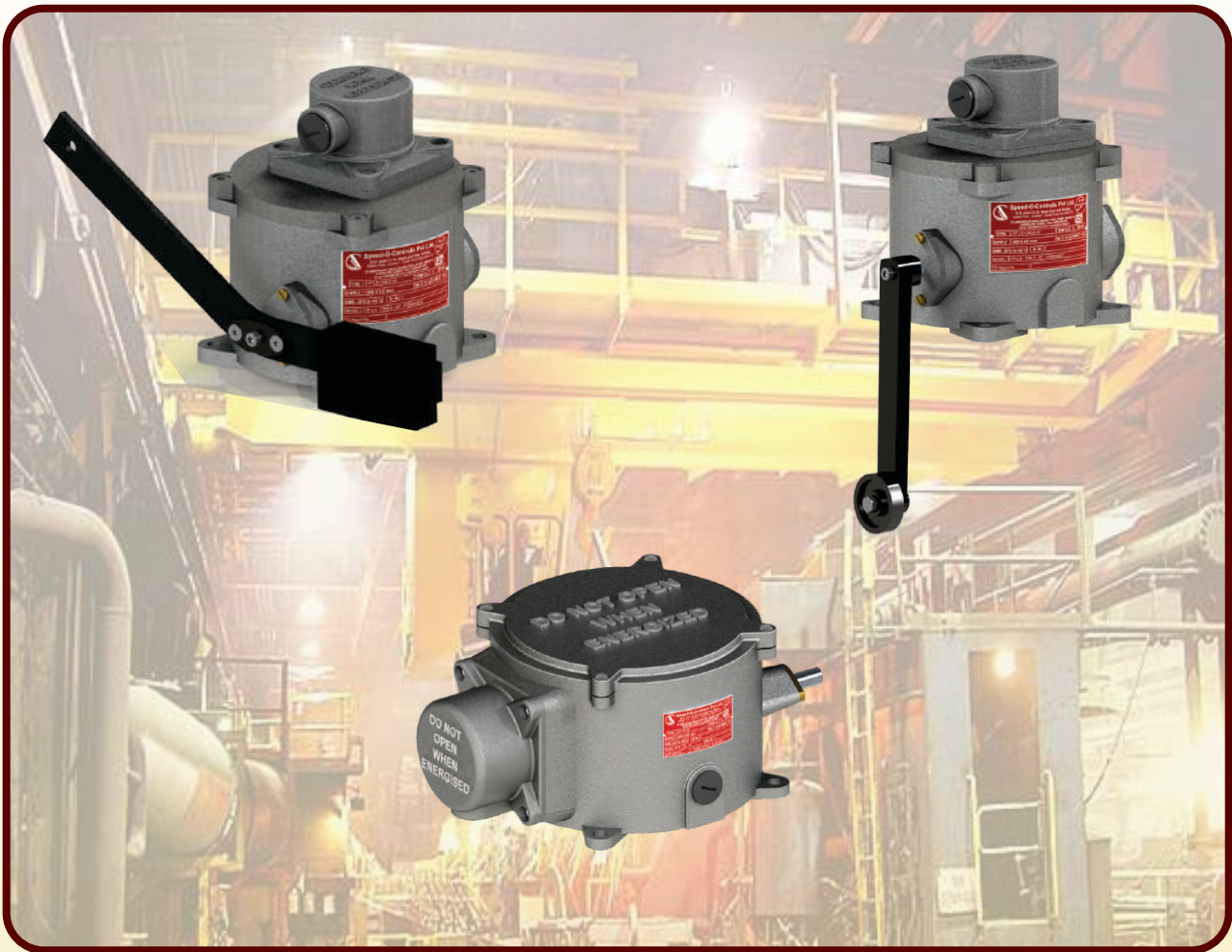


# **SPEED-O-CONTROLS PVT. LTD.**

## **FLAMEPROOF EQUIPMENTS**

### **FLAMEPROOF LIMIT SWITCHES GAS GROUP (IIC)**



**DISCOVER OUR RANGE OF FLAMEPROOF FOR CRANES**

## INDEX

### LEVER LIMIT SWITCH

[\(CLICK HERE\)](#)



### WEIGHT LIMIT SWITCH

[\(CLICK HERE\)](#)



### WORM DRIVE LIMIT SWITCH

[\(CLICK HERE\)](#)



# Flame Proof IIC Lever Limit Switch



## Introduction

Flame-proof **Lever Limit Switch** FLP-LLS 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 IIC, as per IS/IEC 60079-0-2017 & IS/IEC 60079-1-2014.

## Operation

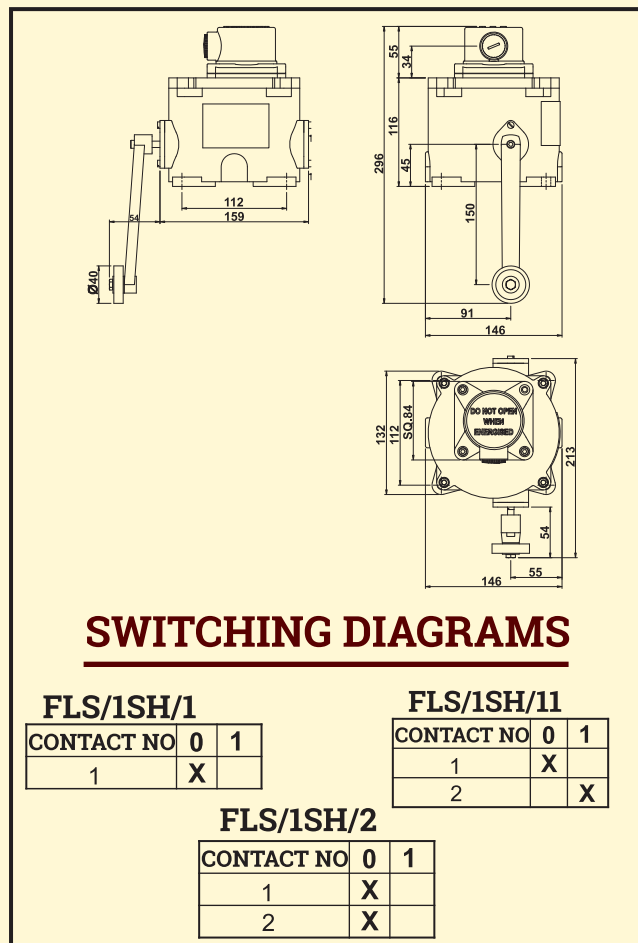
A two Contact elements are operated by respective rotating cams, suitably adjusted on a cam-shaft. Which rotates with fix speed ratio of the drive motor shaft. The cams can be step lessly positioned so that they trip motor supply and stop the motion at the set point of travel. The Lever Limit Switch with IP-54 degree of protection are available in desired NO/NC 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 IIC
Model	FLP-LLS2-IIC
Voltage	500VAC
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 600079-0-2017 IS/IEC 600079-1-2014 IS/IEC 600529 : 2001 (Reaffirmed 2014)
BIS License No.	CM/L-72000208195 20-07-21
Certificate No.	IN/CIMFR/TR21/R/419 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



# Flame Proof IIC Weight Limit Switch



## Introduction

Flame-proof **Counter Weight Operated Limit Switch** is designed for operation in a hazardous environment, where explosive gases/vapors are present. The robustly designed Flame-proof enclosure is modified to meet the requirement as specified on IS/IEC-600079-0-2017 & IS/IEC 600079-1-2014.

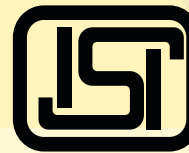
The enclosure is made of Aluminum Alloy LM 4. Each enclosure is subjected to hydrostatic pressure test .The enclosure is certified by Central Institute of Mining & Fuel Research for use in Gas Group IIC.

## Operation

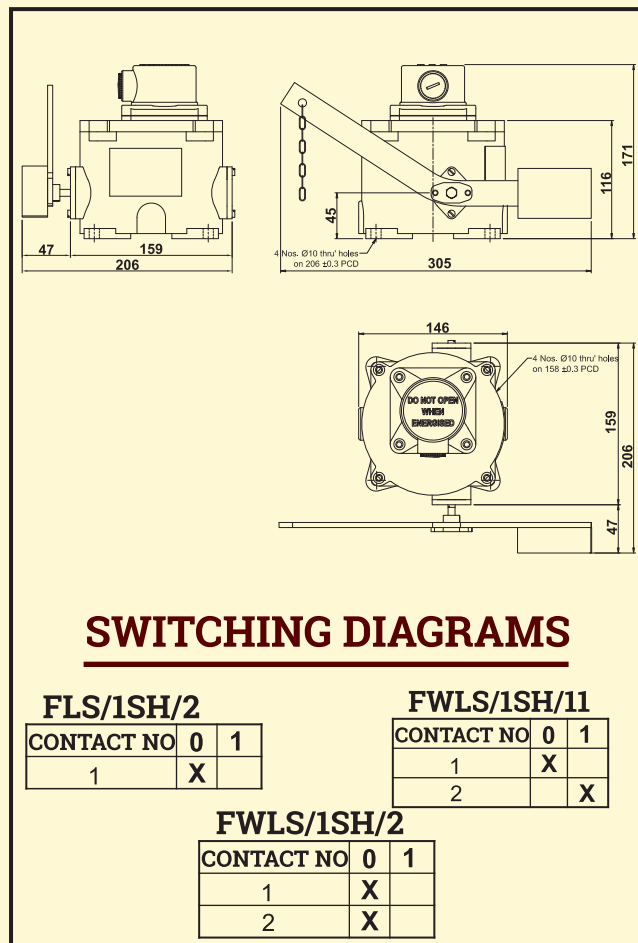
A two (NC) Contact elements are operated by respective rotating cams, suitably adjusted on a square cam-shaft. When a cam on the moving load hits the weight of the limit switch and rotates the square cam shaft, which in turn operates the change over contacts.



[CLICK HERE FOR INDEX](#)



## G.A.Drawing



## Technical Data

Explosive Atmosphere Part I Equipment Protection by Flameproof Enclosures "d"	
Product	Weight Operated Limit Switch
Zone	Zone 1, Gas Groups IIC
Model	FP-WLS2-IIC
Voltage	500VAC
Current	10 A AC max
No of Contacts	2 NC
Ambient Temperature	T6
Enclosure	Aluminium Alloy LM 4
Ingress Protection	IP-55(IEC 60529(1989)
Cable Entry	M 20 Single
IS	IS/IEC 600079-0-2017 IS/IEC 600079-1-2014 IS/IEC 600529 : 2001 (Reaffirmed 2014)
BIS License No.	CM/L-72000208195 20-07-21
Certificate No.	IN/CIMFR/TR21/R/419 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

# 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

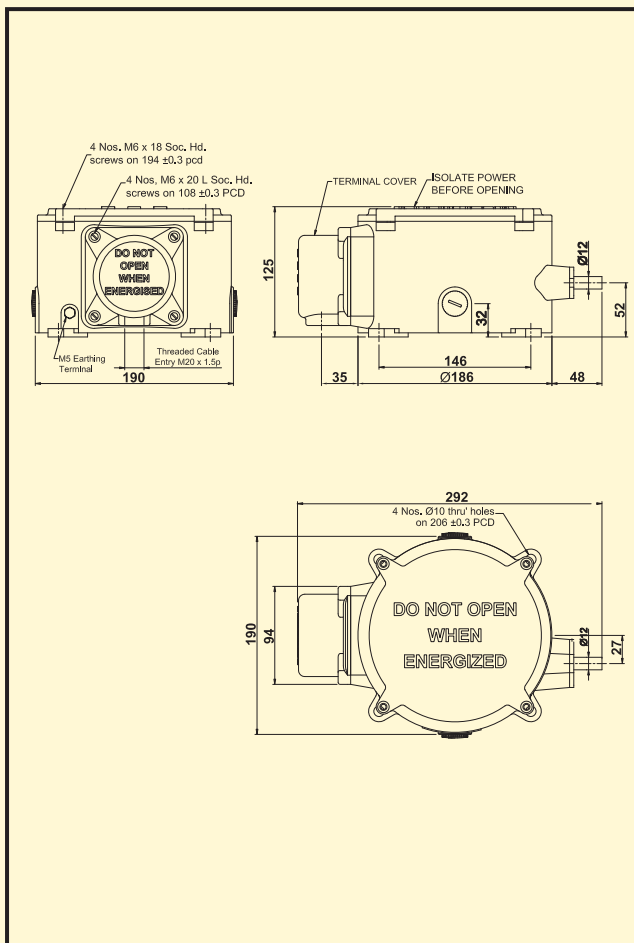
Ratios	Effective Rotations	Useful Rotations	2 Contacts Model	4 Contacts Model
25:1	25	20	FLP-FG-25P2	FLP-FG-25P4
50:1	50	40	FLP-FG-50P2	FLP-FG-50P4
100:1	100	80	FLP-FG-100P2	FLP-FG-100P4
200:1	200	160	FLP-FG-200P2	FLP-FG-200P4
400:1	400	320	FLP-FG-400P2	FLP-FG-400P4



[CLICK HERE FOR INDEX](#)



## 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

H. O. Unit -I : C-15/16, Nand Jyot Industrial Estate, Andheri-Kurla Road, Mumbai - 400072 ,  
Tel : (022) 42469700/730  
E-mail : sales@socgroup.in

Unit - II: Plot No. 4912, G. I. D. C., Phase IV, Vatva, Ahmedabad - 382445  
Tel.: (079) 68169700/702/712  
E-mail : enquiry2@socgroup.in

Visit us at :  
[www.speedocontrols.com](http://www.speedocontrols.com)  
[www.socremote.com](http://www.socremote.com)  
[www.socjoystick.com](http://www.socjoystick.com)

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

V5

30/04/24

# SPEED-O-CONTROLS PVT. LTD.

## CRANE CONTROL SOLUTIONS

### CRANE CONTROL GEAR



### POWER DISTRIBUTION



### RADIO REMOTE CONTROLS



### JOYSTICK CONTROLLER



### FLAMEPROOF PRODUCTS



### OTHER ELECTRONICS



“Our Customer do not buy products. They buy the benefits that our products provides.”

H. O. Unit -I : C-15/16, Nand Jyot,  
Industrial Estate, Andheri-Kurla, Road,  
Mumbai - 400072 ,  
Tel : (022) 42469700-730,  
E-mail : sales@socgroup.in

Visit us at :  
[www.speedocontrols.com](http://www.speedocontrols.com)  
[www.socremote.com](http://www.socremote.com)  
[www.socjoystick.com](http://www.socjoystick.com)

Unit - II: Plot No. 4912, G. I. D. C.,  
Phase IV, Vatva,  
Ahmedabad - 382445  
Tel.: (079) 68169700/702/712,  
E-mail : enquiry2@socgroup.in