

- PRESSURE SWITCHES
- PRESSURE DIFFERENCE SWITCHES
- VACUUM SWITCHES



**Customisation for low volumes
at affordable costs,
to make YOU competitive**

COMPACT



PROCESS



INDUSTRIAL



FLAMEPROOF



with
IECEX
CoC



www.orion-instruments.com



About Us

Established in 1977, Kaustubha Udyog, now an ISO 9001:2008 company, has emerged as a leading manufacturer of pressure switches, with a customer base spanning a wide spectrum : Light & Heavy Engineering, Automation Systems, Paint Systems, Gas Mixing Systems, Boilers, Process Industries, R & D Labs, Medical Equipments and Space & Defence Applications.

We make pressure switches from vacuum to 600 bar, available in fixed differential, adjustable differential and pressure difference models. We also supply flameproof switches for applications in hazardous areas and various media like oil, water, steam, saline, paints, corrosive and non-corrosive gases.

Many of our pressure switches are today working silently and reliably on Machine Tools, Lubrication Systems, Compressors and highly sensitive and vital Medical Equipments.

Our wide-ranging product mix, our obsession with quality, very competitive pricing and the willingness to work to customer needs and budgets has seen us multiplying our turnover every year.

If you do not find an answer to your needs in our product range, we will work with you to evolve a right and cost effective solution tailored to your unique needs.

We shall be happy to hear from you.

ABOUT QUALITY

Quality assurance is an attitude of everyone at Kaustubha Udyog. The emphasis from everyone at Kaustubha Udyog is not on defect detection, but on defect prevention and elimination. The QA team is not under Production and reports directly to Management.

CUSTOM DESIGN

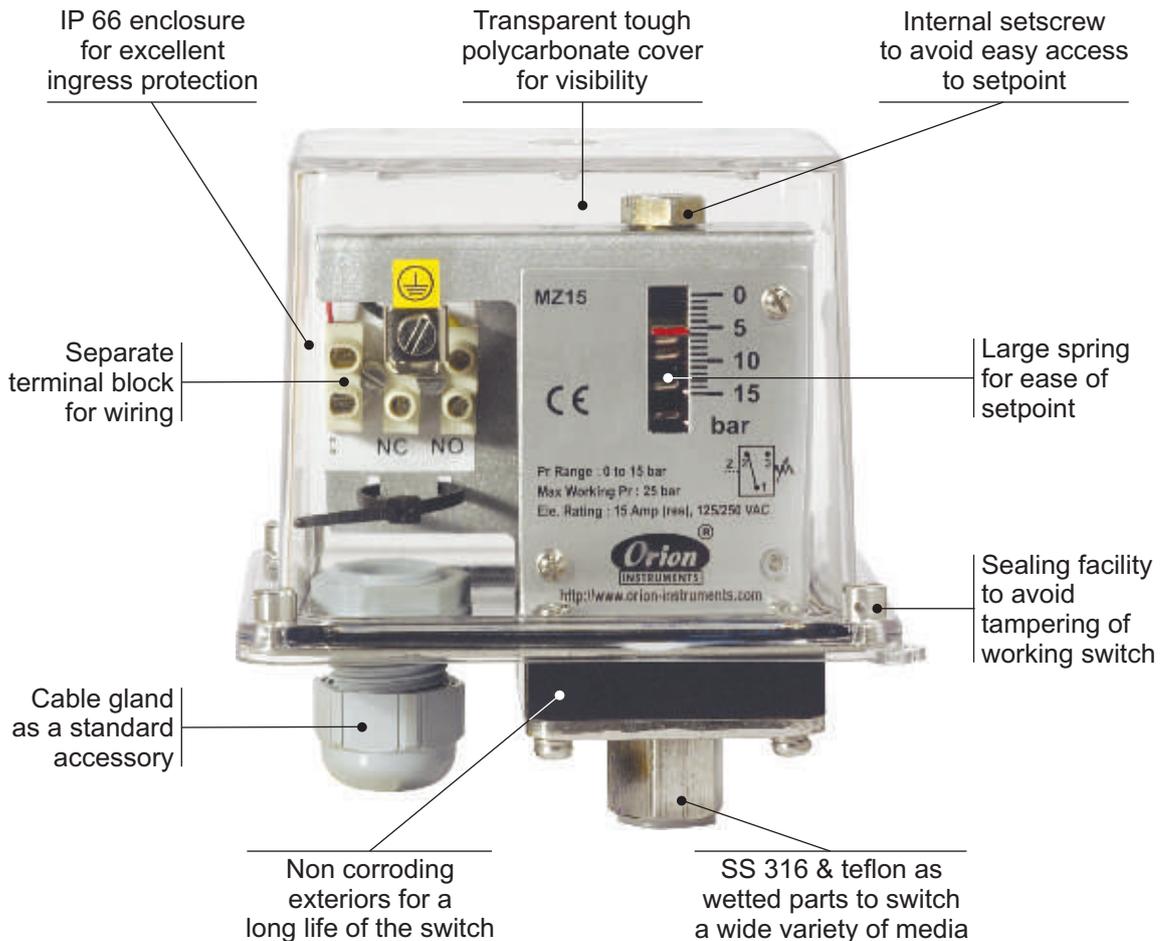
This catalogue lists most of the popular models of Orion and Parus pressure switches. A variety of other nonstandard models are not listed.

If you do not find an answer for your particular application, please get in touch with us. We will work with you to evolve a right solution, one that is not overbuilt or underbuilt, and in the most cost-effective way.

In many cases, more than one product may provide a solution to your needs. For a cost-effective solution, compare prices and characteristics / features. Always remember that the end cost to you includes initial product price, plus the installation and also the service.



MZ PROCESS PRESSURE SWITCHES



INTRODUCTION

MZ series pressure switches have been designed for applications that require cost effective outdoor mounting, in aggressive environments. The tough polycarbonate cover, fitted on a stainless steel base, retained by SS screws offers excellent resistance to corrosion, and also allows a view of the internal scale and working of the pressure switch. The reliable microswitch offers narrow deadband, switching values, which have excellent repeatability. By using appropriate capsules and wetted parts, MZ series pressure switches can be used for thousands of applications.

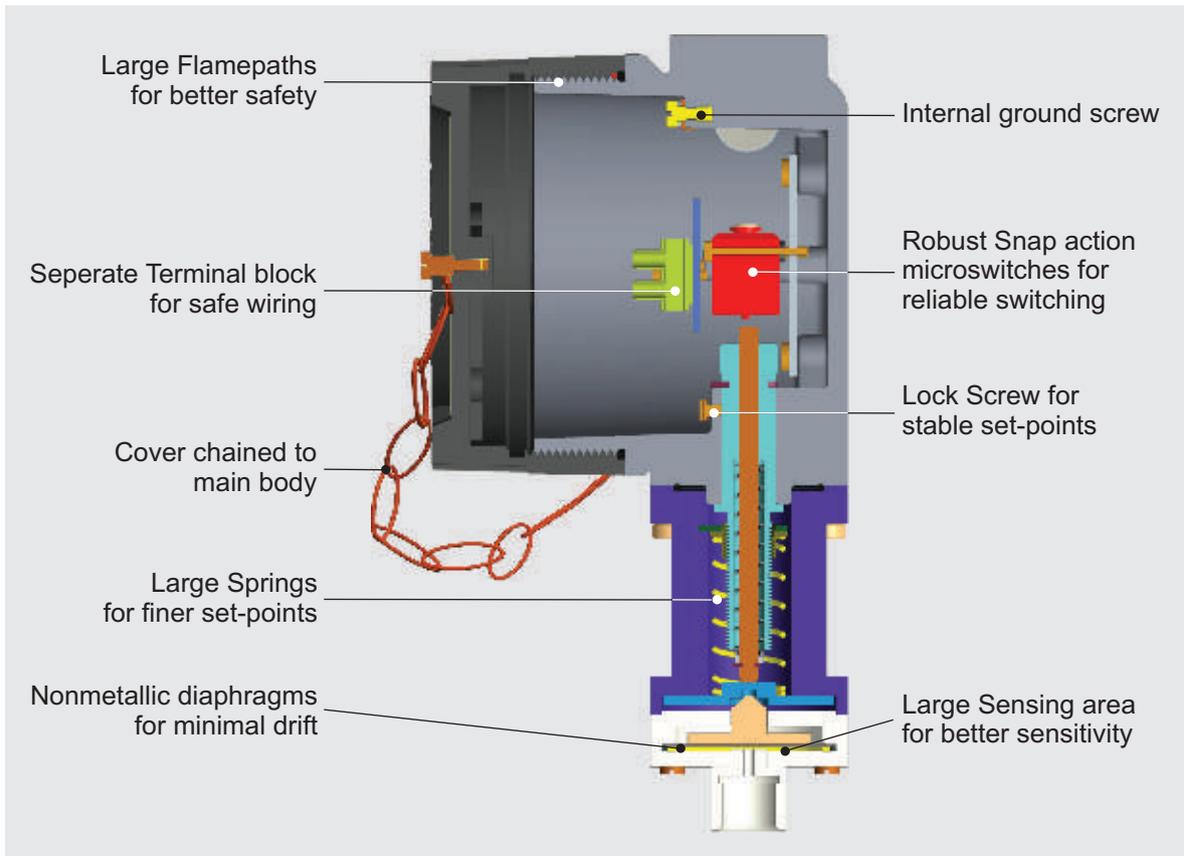
APPLICATIONS

- Power Generation
- Burners and Furnaces
- Glass and Metal Industries
- Chemical Industries
- Steel Industry
- Hydraulic, Steam and Gas Turbines
- Boilers & Compressors
- Machine tools
- Water treatment
- Sugar and Paper Mills
- Fire protection
- Surgical gas, Breweries, Milk industries
- Tyre Industry

PRODUCT SPECIFICATIONS:

- Storage temperature : Atmospheric temperature
- Operating ambient temperature : -20° C to + 60° C
- Media temperature : for rubber diaphragms 80° C max
- Can be offered for higher temperatures with other capsule combinations
- Setpoint repeatability : ± 1 % of FSR
- Enclosure : Tough transparent polycarbonate to IP 66
- Switch output : SPDT
- Process connection : $\frac{1}{4}$ "BSPF standard,
- Approximate weight : 1 kg

FA/FC/FM FLAMEPROOF PRESSURE SWITCHES



IECEx Certificate of Conformity		
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres		
For rules and details of the IECEx Scheme visit www.iecex.com		
Certificate No.	IECEx 043 0110669	Issue No. 1
Status	Current	Certificate history Issue No. 1 (2016-01-01) Issue No. 2 (2016-01-01)
Date of Issue	2016-12-06	Page 1 of 4
Applicant	Kvautech India Pvt. Ltd. A. Poojari Society KOWDI New Plot Phase 4/1/2006 India	
Electrical Apparatus	Flameproof Pressure Switch	
Optional accessory		
Type of Protection	Ex d, Ex tD	
Marking	Ex tD Gb Ex tD IECEx 043 0110669 Ex tD Gb IECEx 043 0110669	
Approved on behalf of the IECEx	 Managing Director	
Issued by	 Baseefa	
Date	6/12/16	
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and it remains the property of the issuing body. 3. The validity and authenticity of this certificate may be verified by visiting the Official IECEx Website.		
Certificate issued by: Baseefa 100/100, Bhandarkar Park, Shilpa Nagar, Bangalore, Karnataka, India 560022		

Baseefa		Issued 8 February 2018 Page 1 of 2
1	EU - TYPE EXAMINATION CERTIFICATE European Union of Protected Series (Ex) for use in Potentially Explosive Atmospheres Ex d, Ex tD	
2	Certificate No. IECEx 043 0110669	
3	Applicant: Kvautech India Pvt. Ltd.	
4	Type of Protection: Ex d, Ex tD	
5	Marking: Ex tD Gb Ex tD IECEx 043 0110669 Ex tD Gb IECEx 043 0110669	
6	Approved on behalf of the IECEx: Managing Director	
7	Issued by: Baseefa	
8	Date: 6/12/16	
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11	Certificate issued by: Baseefa 100/100, Bhandarkar Park, Shilpa Nagar, Bangalore, Karnataka, India 560022	

**HIGH RANGE
PRESSURE SWITCHES**
(typically from 0.067 barg
to 25 barg)



**LOW RANGE
PRESSURE SWITCHES**
(typically from 1.5 mbarg
to 250 mbarg)



**HIGH RANGE PRESSURE
DIFFERENCE SWITCHES**
(typically from 0.1 barg
to 25 barg)



**LOW RANGE PRESSURE
DIFFERENCE SWITCHES**
(typically from 1.5 mbarg
to 250 mbarg)



**VACUUM
SWITCHES**
(typically from 760 mmHg
to atmospheric pressure)



**HYDRAULIC RANGE
PRESSURE SWITCHES**
(typically from 3 barg
to 400 barg)



INTRODUCTION

FA/FC/FM pressure switches have been designed for use in areas which are potentially explosive. These can be used, by selecting an appropriate construction, for gas groups IIA, IIB and IIC. They can also be used in underground mines by selecting Grey CI flameproof heads.

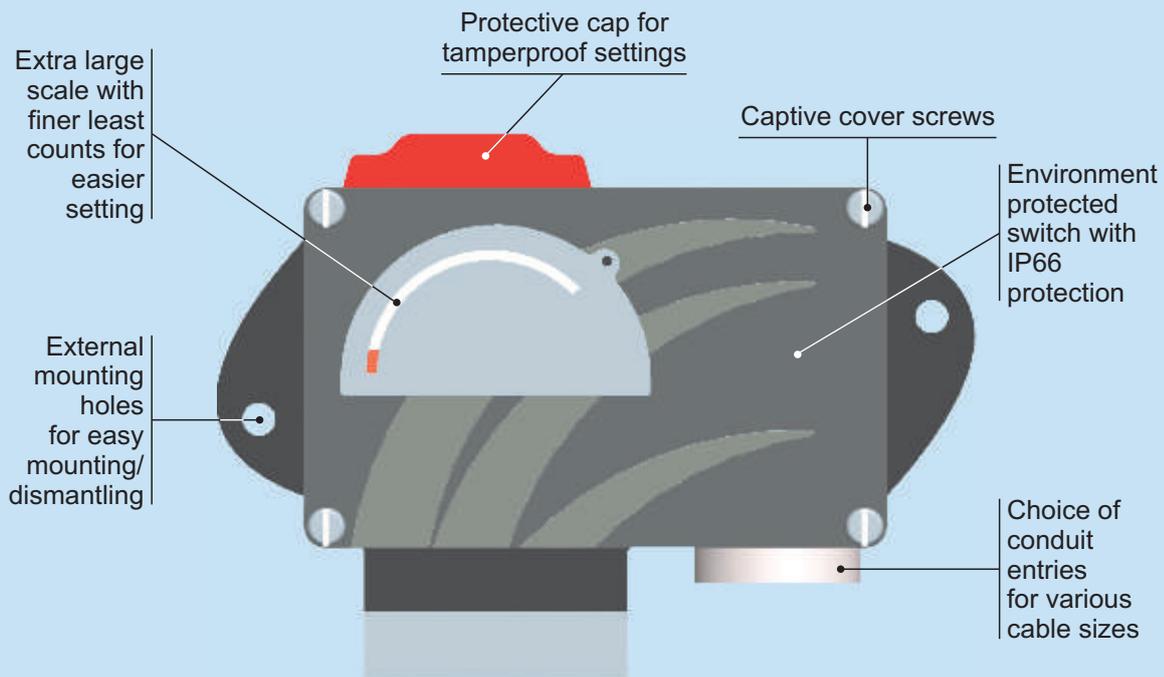
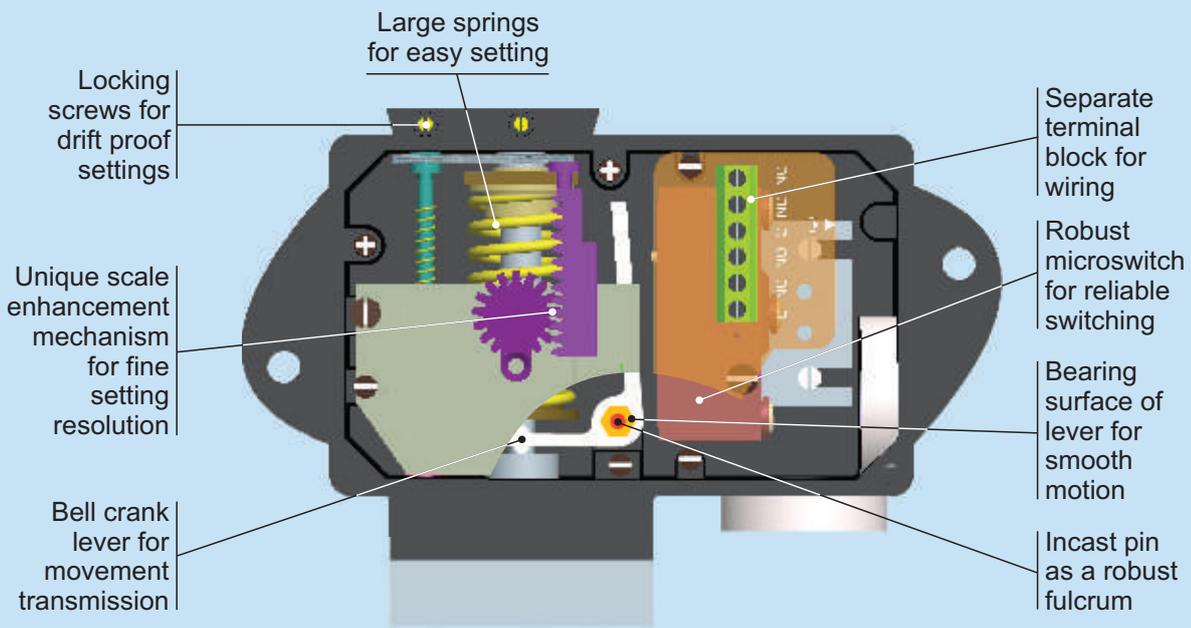
APPLICATIONS

- Oil & Gas pipelines and distribution centers
- Petrochemical
- Bulk Drug & Pharma
- Automotive refuelling stations or petrol stations
- Oil refineries, rigs and processing plants
- Chemical processing plants
- Printing industries, paper and textiles
- Hospital operating theatres
- Aircraft refuelling and hangars
- Surface coating industries
- Underground coalmines
- Sewerage treatment plants
- Grain handling and storage
- Metal surface grinding, especially aluminium dusts and particles

PRODUCT SPECIFICATIONS:

- Storage Temp. : Atmospheric temperature
- Operating ambient Temp. : -20° to 60° C
- Media Temp.: 80° C max.
- Set point repeatability : ±1% over full range
- Enclosure details : Al grade LM6 / Grey Cast Iron Casing & Cover
- Enclosure Specifications :
Protection : IP66 Standard
Exproof to IS2148 For group II-A , II-B & II-C
Grey CI enclosure for mines (Group I applications)
- Switching elements : Choice of hermetically sealed, gold plated, DPDT etc.
- Pr. Connections : ¼" BSP, ¼" NPT

MD INDUSTRIAL PRESSURE SWITCHES



HIGH RANGE PRESSURE SWITCHES

(typically from 0.067 barg to 25 barg)



HIGH PROOF HIGH RANGE PRESSURE SWITCHES

(typically from 0.067 barg to 25 barg, Pmax = 70 bar)



LOW RANGE PRESSURE SWITCHES

(typically from 1.5 mbarg to 250 mbarg)



HIGH RANGE PRESSURE DIFFERENCE SWITCHES

(typically from 0.1 barg to 25 barg)



HIGH PROOF HIGH RANGE ΔP SWITCHES

(typically from 0.1 barg to 25 barg, Pmax = 200 bar)



LOW RANGE PRESSURE DIFFERENCE SWITCHES

(typically from 1.5 mbarg to 250 mbarg)



VACUUM SWITCHES

(typically from 760 mm Hg to atmospheric pressure)



HYDRAULIC RANGE PRESSURE SWITCHES

(typically from 3 barg to 400 barg)



INTRODUCTION

MD series pressure switches have been designed for applications that require robust, long lasting switches, coupled with a high accuracy and repeatability, in adverse conditions. By using appropriate capsules and wetted parts, MD series pressure switches can be used for thousands of applications. A wide choice of electrical elements including SPDT, DPDT, gold plated contacts make these switches ideal for a variety of critical applications. A wide scale, when opted for, offers ease of setting, given the smaller least counts.

APPLICATIONS

- Power Generation
- Burners and Furnaces
- Glass and Metal Industries
- Chemical Industries
- Steel Industry
- Hydraulic, Steam and Gas Turbines
- Boilers & Compressors
- Machine tools
- Railway braking systems
- Water treatment
- Sugar and Paper Mills
- Fire protection
- Surgical gas, Breweries, Milk industries
- Tyre Industry
- Natural Gas, LPG storage and transportation

PRODUCT SPECIFICATIONS:

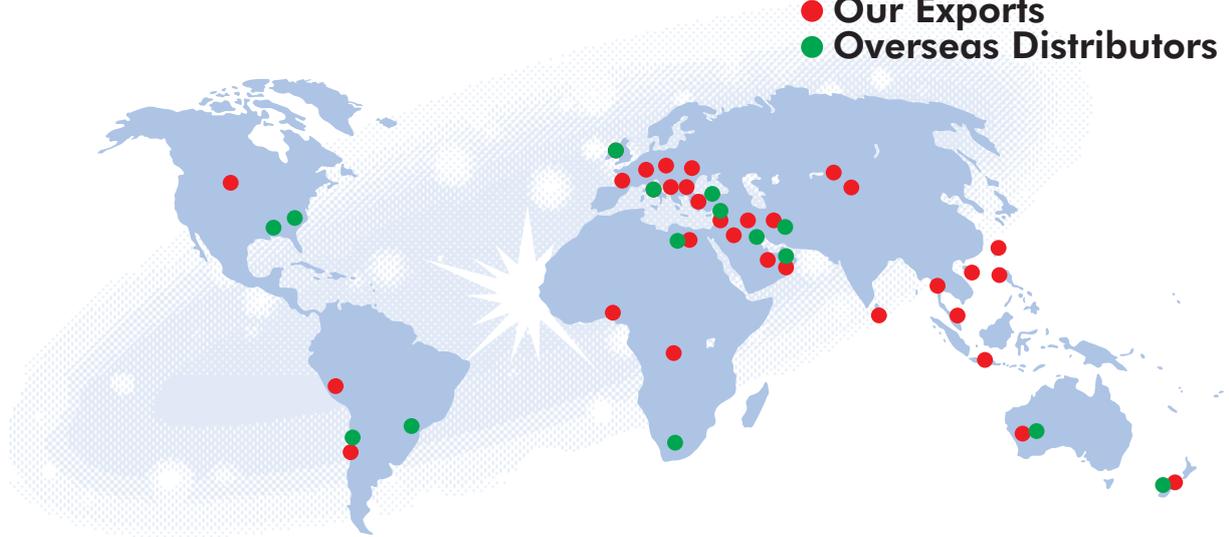
- Storage temperature : Atmospheric temperature
- Operating ambient temperature : -20° C to +60° C
- Media temperature : for rubber diaphragms 80° C max
- Can be offered for higher temperatures with other capsule combinations
- Setpoint repeatability : ±1% of FSR
- Enclosure : Die cast aluminium to IP 66
- Switch output : SPDT, DPDT, hermetically sealed, gold plated contacts
- Process connection : ¼ "BSP standard, other options like flanges, triclover clamps, diaphragm seals available.
- Approximate weight : 2 kgs (without accessories)



COMPACT



- Our Exports
- Overseas Distributors



- Seeking Alliances !
- Suchen Zusammenarbeit !
- Chercher des Alliances !
- Buscar Alianzas !

Note : As efforts are made constantly to improve both design and method of manufacture, the apparatus supplied may differ in detail from illustration and data printed. Please check the specifications while ordering



Kaustubha Udyog

AN ISO9001:2008 COMPANY

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