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## FLAMEPROOF DIFFERENTIAL PRESSURE SWITCH

# S302

### STANDARD SPECIFICATIONS

Repeatability	:	± 0.5 % F.S
Scale accuracy	:	± 1% F.S
Measurement unit	:	bar
Range	:	Refer "Range Table"
Range adjustment	:	External
Differential	:	Fixed (Standard), Adjustable (Optional)
Mounting	:	Bottom / Panel
Enclosure material	:	Aluminum pressure die cast
Sensing elements	:	SS 316 Diaphragm
Switch	:	1 SPDT Snap action micro switch
Switch rating	:	15A,250 VAC / 0.2A,24 VDC (Standard)
Process connection	:	¼"BSP(F) x 2 Nos.
Maximum process temperature	:	150 °C
Ambient temperature	:	-10...60 °C
Cable entry	:	½" NPT Double compression, in brass
Set point	:	Between 20 to 80 % F.S for better performance
High voltage strength	:	0.5 to 0.6 KV between open contacts and 2 K V between contact and body

### RANGE TABLE

CODE	RANGE "mbar"	CODE	RANGE "bar"
D17	5...60	B02	0.1...1
D19	10...100	B04	0.2...2
D24	25...250	B06	0...4
D29	50...600	B07	0.6...6
		B09	1...10
		B11	1...16
		B13	2...25

## FEATURES

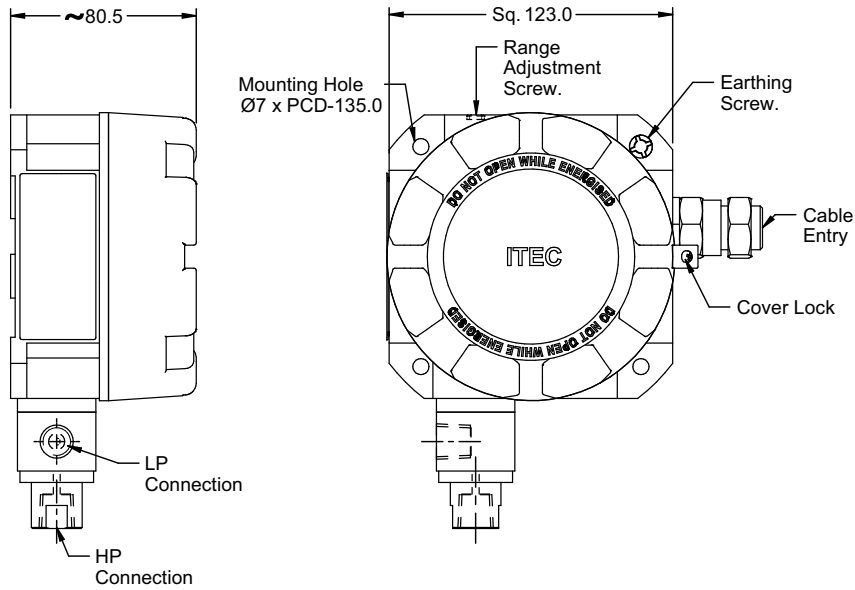
- Fix / adjustable differential
- Field adjustable set point
- Flameproof EEx IIA, IIB, IIC
- Ingress Protection IP 65
- Internal set point lock
- Rigid construction
- Scale provided

## APPLICATION

- Marine applications
- Textile machineries
- Power & steel plants
- Furnace applications
- Oil & Gas, Refineries
- Petro-chemicals & Fertilizers
- Cement & Glass industries
- Railway engines & Turbines



DIMENSIONAL DRAWING



All dimensions are in mm

MICROSWITCH SPECIFICATION

DESCRIPTION	RATING	RATING	DIFFERENTIAL	TYPE	SWITCH CODE	
	AC	DC			1 No.	2 Nos.
Low deadband / differential	15A/250V, 2A/24V 0.2A/220V	15A/250V, 2A/24V 0.2A/220V	Fix	SPDT	M10	M20
High dead band / differential	15A/250V, 6A/24V 0.25A/220V	15A/250V, 5A/24V 0.03A/220V	Fix / Adjustable	SPDT	M11	M21
Gold plated switch	1A/250V	0.5A/28V	Fix	SPDT	M13	M23
Environmentally sealed silver contact	5A/28V	-	Fix	SPDT	M14	M24
Hermetically sealed silver contact	3A/28V	2A/24V	Fix	SPDT	M16	M26
Hermetically sealed gold contact	1A/125V	-	Fix	SPDT	M17	M27
High DC rating	10A/125V	6A/125V	Fix / Adjustable	SPDT	M18	M28
DPDT	10A/125V, 0.2A/250V	-	Fix / Adjustable	DPDT	M08	-

**ORDERING CODES**
**1. RANGE**

Refer "Range Table"

**2. CHAMBER MATERIAL**

**NF** AISI 316 SS  
**NN** Monel K-500  
**NO** Hastelloy C-276

**3. SENSING ELEMENT MATERIAL**

**DF** AISI 316 SS  
**DN** Monel K-500  
**DO** Hastelloy C-276  
**D2** PTFE (Teflon)

**4. SWITCHING DIFFERENTIAL**

**S4** Fixed, 2...5%  
**S5** Adjustable, 5...12.5%

**5. SET POINT**

**S8** On Raising  
**S9** On Falling

**6. MICROSWITCH TYPE**

Refer "Microswitch Specification"

**7. CABLE ENTRY**

**C0** 3/4" ET (F)  
**C1** 1/2" NPT (F)

**B02**
**NF**
**DF**
**S4**
**S8**
**M10**
**C1**
**8. PROCESS CONNECTION**

**02B** 1/4" BSP (F)  
**12B** 1/4" BSP (M)  
**13B** 3/8" BSP (M)  
**14B** 1/2" BSP (M)  
**02N** 1/4" NPT (F)  
**12N** 1/4" NPT (M)  
**14N** 1/2" NPT (M)  
**04N** 1/2" NPT (F)  
**A25** 1.5" RF 150#  
**A26** 1.5" RF 300#  
**A27** 1.5" RF 600#  
**A31** 2" RF 150#  
**A32** 2" RF 300#  
**A33** 2" RF 600#

**02B**
**9. OTHER OPTIONS**

**TB** Calibration Certificate  
**XF** AISI 304 SS tag plate  
**XV** Wall mounting bracket  
**XS** Mounting bracket with 2" U-clamp  
**TC** Material test certificate 3.1  
**KK** Cable gland, double compression flameproof, Ni-plated brass  
**KL** Cable gland, double compression flameproof, AISI 304 SS

**KK**
**Ordering Example : S302-B02-NF-DF-S4-S8-M10-C1-02B-KK**

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