

# DIFFERENTIAL PRESSURE SWITCH -WEATHER PROOF

# SSKE45

## APPLICATIONS

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



## FEATURES

- Fix / adjustable differential
- Field adjustable set point
- Weatherproof to IP 67
- Internal set point lock
- Rigid construction
- Scale provided

## DIFFERENTIAL PRESSURE SWITCH -WEATHER PROOF -SSKE45

## DESCRIPTION

### General

**Design** : BS 6134

**Sensing element** : Diaphragm / Piston

**Repeatability** :  $\pm$  0.5 % Full Scale

**Scale accuracy** :  $\pm$  1% Full Scale

**Mounting** : Bottom / Panel

**Enclosure / equipment rating** : IP 68

**Maximum process temperature** : 150 °C

**Ambient temperature** : -10...60 °C

**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 KV between contact and body

### Material of construction

**Enclosure** : Die-cast aluminum

**Sensing element** : AISI 316 SS / Monel / Hastelloy - C276

**Chamber** : AISI 316 SS / AISI 316L SS / Monel /

Hastelloy C-276

**Wall mounting bracket** : ASTM A105 / AISI 304 SS

**2" pipe / Yoke mounting bracket** : ASTM A105 / AISI 304 SS

**Tag plate** : AISI 304 SS

### Standard version :

**Range** : As per the selection table

**Set point adjustment** : External (Field adjustable)

**Differential** : Fixed (Standard - 2...5%),  
Adjustable (For code N11B - 5...12.5%)

For double contacts, Differential shall be 1.5 times

**Switch** : 1 SPDT Snap action micro switch

**Switch rating** : 15A,250 VAC / 2A,24 VDC (Standard)

**Process connection** : 1/4" BSP (F) / 1/4" NPT (F)

**Cable entry** : PG 13.5, single compression

### Range table :

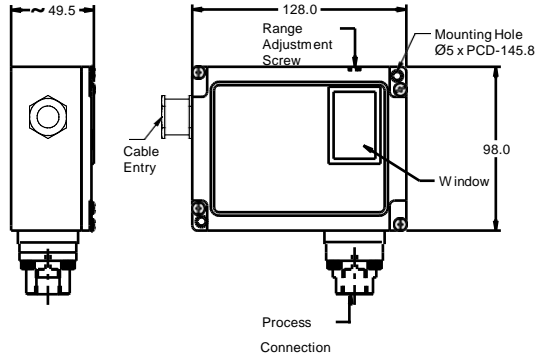
CODE	RANGE		
		"mbar"	"bar"
		201	0.1...1
560	5...60	202	0.2...2
101	10...100	404	0.4...4
252	25...250	606	0.6...6
506	50...600	110	1...10
		116	1...16
		225	2...25

# WEATHERPROOF DIFFERENTIAL PRESSURE SWITCH

## SSKE45

### DIMENSIONAL DRAWING

#### Diaphragm



NOTES  
1. Drawing not to scale. All dimensions are in mm.

### ORDERING CODES

<b>MODEL</b>			<b>SSKE45</b>
<b>SSKE45</b>	Differential Pressure Switch weather proof		
<b>RANGE</b>			<b>110</b>
<b>XXX</b>	As per range table		
<b>DIAPHRAGM</b>			<b>S02</b>
<b>S02</b>	AISI 316 SS	<b>S05</b>	MONEL 400
		<b>S10</b>	Hastelloy C-276
<b>CHAMBER</b>			<b>S02</b>
<b>S02</b>	AISI 316 SS	<b>S03</b>	AISI 316L SS
<b>S10</b>	Hastelloy C-276	<b>S05</b>	MONEL 400
<b>SET-POINT ADJUSTMENT</b>			<b>E64</b>
<b>E63</b>	Internal	<b>E64</b>	External
<b>CALIBRATION</b>			<b>E80</b>
<b>E70</b>	Falling pressure	<b>E80</b>	Rising pressure
<b>MICROSWITCH TYPE</b>			<b>N11A</b>
<b>N11A</b>	Low Deadband Contact (15A/250VAC, 2A/24VDC)	<b>N11E</b>	Hermetically Sealed Silver Contact (2A/24VDC)
<b>N11B</b>	Adjustable Deadband Contact(15A/250VAC, 5A/24VDC)	<b>N11F</b>	Hermetically Sealed Gold Contact (1A/125VAC)
<b>N11C</b>	Gold Plated Contact (1A/250VAC, 0.5A/28VDC)	<b>N12A</b>	DPDT Contact (10A/125VAC)
<b>N11D</b>	Environmentally Sealed Silver Contact (5A/28VAC)		
<b>NO. OF SWITCHES</b>			<b>1</b>
<b>1</b>	One	<b>2</b>	Two [Except for code N12A]
<b>CABLE ENTRY</b>			<b>Q1</b>
<b>Q1</b>	PG 13.5	<b>Q2</b>	½" NPT (F)
<b>Q4</b>	DIN Connector	<b>Q5</b>	¾" ET (F)
		<b>Q3</b>	½" BSP (F)
<b>PROCESS CONNECTION</b>			<b>P24</b>
<b>P23</b>	¼" BSP (F)	<b>P3</b>	¼" BSP (M)
<b>P7</b>	½" BSP (M)	<b>P24</b>	¼" NPT (F)
<b>P8</b>	½" NPT (M)	<b>P28</b>	½" NPT (F)
<b>A26</b>	1.5" RF 300#	<b>A27</b>	1.5" RF 600#
<b>A32</b>	2" RF 300#	<b>A33</b>	2" RF 600#
		<b>P5</b>	3/8" BSP (M)
		<b>P4</b>	¼" NPT (M)
		<b>A25</b>	1.5" RF 150#
		<b>A31</b>	2" RF 150#
<b>OTHER OPTIONS</b>			<b>E16/E27</b>
<b>E16</b>	Calibration Certificate	<b>E27</b>	AISI 304 SS tag plate
<b>E66</b>	2" Pipe mounting bracket & clamp	<b>E65</b>	Wall mounting bracket
<b>Q54</b>	Ni-plated brass double compression cable gland	<b>E17</b>	Material test certificate 3.1

Ordering Example : SSKE45.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27

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