

# WEATHERPROOF PRECISION PRESSURE SWITCH-DIAPHRAGM

## SSKE44-1

### 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 68
- Internal set point lock
- Rigid construction
- Scale provided



### WEATHERPROOF PRECISION PRESSURE SWITCH , SSKE44-1

## DESCRIPTION

### General

**Design :** BS 6134

**Sensing element :** Diaphragm

**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

**Top chamber :** ASTM A105 - Ni plated, AISI 304 SS

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

**Bottom 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 :

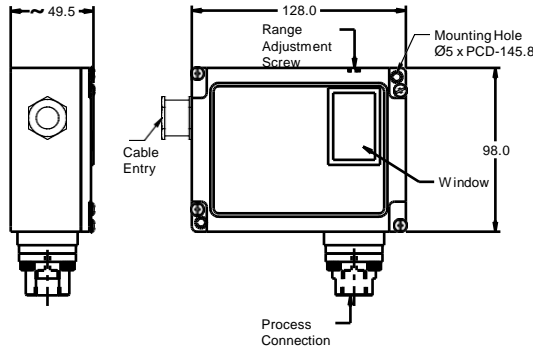
CODE	RANGE	CODE	RANGE
	"mbar"		"bar"
200	-20...+20	001	-1...0
400	-40...+40	102	-1...+2
320	3...20	104	-1...+4
560	5...60	202	0.2...2
101	10...100	404	0.4...4
252	25...250	606	0.6...6
506	50...600	110	1...10
		116	1...16
		225	2...25
		232	2...32
		440	4...40
		565	5...60

# WEATHERPROOF PRECISION PRESSURE SWITCH DIAPHRAGM

# SSKE44-1

## DIMENSIONAL DRAWING

### Diaphragm



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

## ORDERING CODES

<b>MODEL</b>			SSKE44-1		
SSKE44-1 Weatherproof Pressure Switch, Diaphragm					
<b>RANGE</b>			110		
XXX	As per range table				
<b>DIAPHRAGM</b>			S02		
S02	AISI 316 SS	S05	MONEL 400	S10	Hastelloy C-276
<b>BOTTOM CHAMBER</b>			S02		
S02	AISI 316 SS	S03	AISI 316L SS	S05	MONEL 400
S10	Hastelloy C-276				
<b>SET-POINT ADJUSTMENT</b>			E64		
E63	Internal	E64	External		
<b>CALIBRATION</b>			E80		
E70	Falling pressure	E80	Rising pressure		
<b>MICROSWITCH TYPE</b>			N11A		
N11A	Low Deadband Contact (15A/250VAC, 2A/24VDC)	N11E	Hermetically Sealed Silver Contact (2A/24VDC)		
N11B	Adjustable Deadband Contact(15A/250VAC, 5A/24VDC)	N11F	Hermetically Sealed Gold Contact (1A/125VAC)		
N11C	Gold Plated Contact (1A/250VAC, 0.5A/28VDC)	N12A	DPDT Contact (10A/125VAC)		
N11D	Environmentally Sealed Silver Contact (5A/28VAC)				
<b>NO. OF SWITCHES</b>			1		
1	One	2	Two [Except for code N12A]		
<b>CABLE ENTRY</b>			Q1		
Q1	PG 13.5	Q2	1/2" NPT (F)	Q3	1/2" BSP (F)
Q4	DIN Connector	Q5	3/4" ET (F)		
<b>PROCESS CONNECTION</b>			P24		
P23	1/4" BSP (F)	P3	1/4" BSP (M)	P5	3/8" BSP (M)
P7	1/2" BSP (M)	P24	1/4" NPT (F)	P4	1/4" NPT (M)
P8	1/2" NPT (M)	P28	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#		
<b>OTHER OPTIONS</b>			E16/E27		
E16	Calibration Certificate	E27	AISI 304 SS tag plate	E65	Wall mounting bracket
E66	2" Pipe mounting bracket & clamp	E17	Material test certificate 3.1		
Q54	Ni-plated brass double compression cable gland				

Ordering Example : SSKE44-1.110.S02.S02.E64.E80.N11A.1.Q1.P24/E16/E27

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