

SP-950

PRESSURE SWITCH

Deutsch connector

- Provides a high level output
- Superior Long term Stability
- Temperature Compensated
- Linear Amplified Output
- Excellent Repeatability & Hysteresis
- EMI/RFI Protection



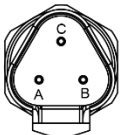
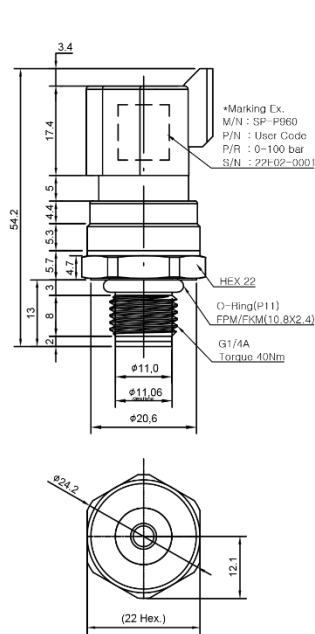
TYPICAL APPLICATIONS

- ✓ Process control
- ✓ Pneumatic and hydraulic controls
- ✓ Environmental control systems

General SPEC

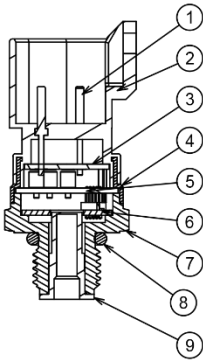
Characteristic	SP-950 series	Remark
Pressure Range	0 to 100 [bar]	-
Overload Pressure	0 to 300 [bar]	-
Burst Pressure	0 to 1,000 [bar]	-
Switch type	1PNP	-
Switch on	5 bar	-
Switch off	4 bar	-
Switch point accuracy	< ±1.5%F.S max. at 25° C	-
Output load	< 500mA	-
Power supply	8-30VDC(Operating:min.6V, max.40V)	-
Reverse polarity protection	40VDC	-
Load Resistance	>50Ω	-
Current Consumption	4.2mA	-
Accuracy	< 0.5%F.S(BFSL)	-
Repeatability	< 0.2%F.S	-
stability	< 0.2%F.S(at reference conditions)	1-year
Total Error	≤2.0%F.S(-25 to100 ° C); ≤2.5%F.S(-40 to125 ° C)	-
Electrical connector	DT04-3P	Mating Part DT06-3S
Port Connection	G1/4A Type	JIS B 2401, PF1/4
Torque	Up to 40Nm	-
Operating Temp.	-40 to +125° c	Process Liquid Temp.
Storage Temp.	-40 to +100° c	-
Enclosure	IP67	-
Shock proof	20g	EN 60068-2-27
Vibration proof	100g	EN 60068-2-6
Durability	>10 × 10 ⁶ cycles	P : 10-90%FS
Electric connection	Hex22, Deutsch connector	Mating part : DT06-3S

Dimensions (mm)



PIN Configuration	DESCRIPTION
A	Power(+)
B	Ground(-)
C	Switch out put

Mating part : DT06-3S



9	1	MODULE	SUS 630	
8	1	O-RING	FPM/FKM	JIS B 2401, P11(10.8 X 2.4)
7	1	HEX BODY	SUS 303	Electroplating
6	1	SENSOR PCB	EPOXY RESIN	
5	1	MAIN PCB	EPOXY RESIN	
4	1	STEEL RING	SUS 316	
3	1	CONNECTOR PCB	EPOXY RESIN	
2	1	CONNECTOR	PA66, GF15%	
1	1	TERMINAL	BRASS	
NO.	Q'TY	PART NUMBER	MATERIAL	REMARK
SMART SENSOR			DRAWING TITLE SP-950	
UNSPECIFIED DIMENSION TOLERANCE			PART NUMBER See Customer P/N	
DIMENSION SECTION	TOL' CLASS			
	A	Ⓑ	C	
TO4	±0.05	±0.1	±0.3	
OVER 4 TO 16	±0.07	±0.2	±0.5	
OVER 16 TO 63	±0.1	±0.3	±0.7	
OVER 63 TO 250	±0.2	±0.5	±1.2	
OVER 250 TO 1000	±0.3	±0.8	±2.0	
		DESIGNED BY	DRAWN BY	CHECKED BY
		REVISION: X	Scale: 1:1	WEIGHT:32g

How to order

SP - 950



1) Pressure range

0 to 100 bar

Other on request

|

100

Z

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|

|

2) Process connection

R1/4" (PT1/4")

G1/4" (PF1/4")

G3/8" (PF3/8")

Other on request

R4

G4

G8

Z