

PSKA



Principle structure

The diffused silicon sensor is used for pressure measurement, and the signal is converted into a standard industrial electrical signal after processing by a post-processing circuit and displayed. Designed with an integrated injection molded housing, this series of products can be used in a variety of industrial applications. Key setting, easy operation, high-light LED can digitally display real-time measurement values. A variety of connection methods can fully meet a variety of specific installation needs.

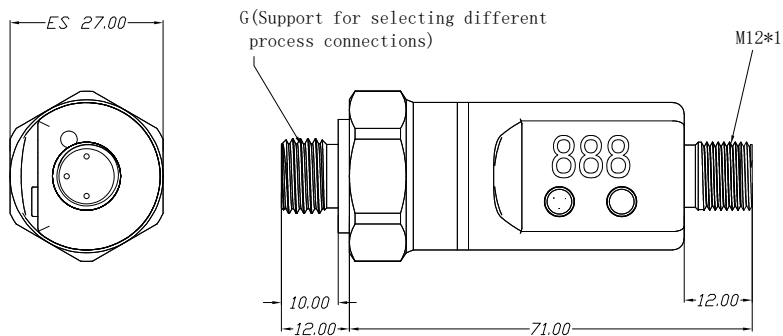
Technical parameter

- ◇ Supply voltage: 12... 30Vdc
- ◇ No-load current consumption: maximum 30mA, 24Vdc power supply
- ◇ Output type: PNP/NPN can be set, normally open/normally closed can be set
- / Frequency (full scale 100Hz) Optional
- Switch load: <200mA
- Response time: <10ms
- Switching accuracy: $\leq \pm 0.5\%$ range
- ◇ Switch setting mode: button increase/decrease
- ◇ Switch point return difference: factory default return difference
is 0.5% of the set value of the switch (configurable)
- ◇ Connection protection: reverse phase, overload,
paragraph protection
- ◇ Accuracy: $\leq \pm 0.5\%$ range
- ◇ Stability (annual drift) : $\leq \pm 0.3\%$ range
- ◇ Temperature:
- Medium temperature: -20... 85°C
- Ambient temperature: -20... 80°C
- Storage temperature: -30... 80°C
- ◇ Material:
- Induction diaphragm: stainless steel 316L/ ceramic
- Process connection: stainless steel 304
- Sealing material: Butadiene rubber/fluorine rubber
- Housing: engineering plastic
- ◇ Protection grade: IP67
- ◇ Outlet: M12x1 connector

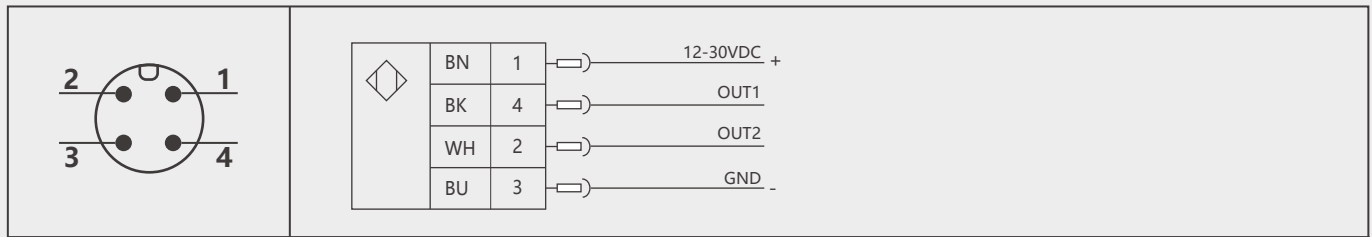
Parameter table

Pressure range	bar	1	2	5	10	16	25	60	100	160	250	400	600
	psi	15	30	75	145	230	370	900	1500	2300	3600	6000	9000
Maximum overload pressure		×5			×3			×2			×1.5		×1.3
Minimum damage pressure		×6			×4			×3			×2		×1.6

Dimension drawing (mm)



Wiring diagram



switch/frequency

color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	SP1 Switch PNP (Factory default) SP1 Switch NPN Frequency (full scale 100Hz)	WH	2 (OUT2)	/

Analog output: 4-20mA

color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	4-20mA	WH	2 (OUT2)	/

Analog output: 1-5V

color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	1-5V	WH	2 (OUT2)	/

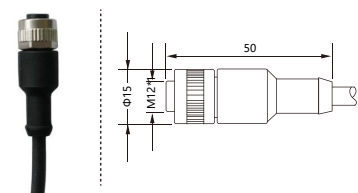
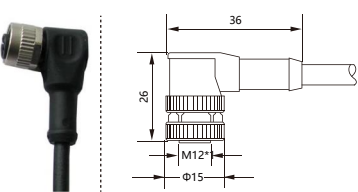
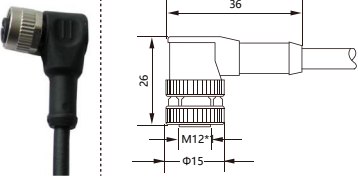
RS485

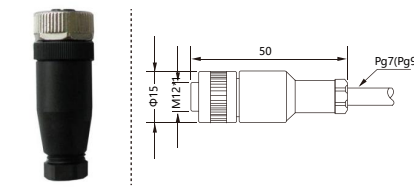
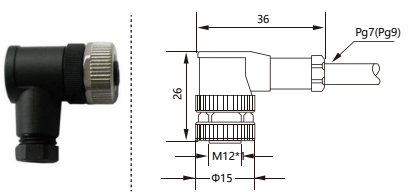
color	stitch	Instructions	color	stitch	Instructions
BN	1	power supply (+)	BU	3	power supply (-)
BK	4 (OUT1)	RS485(B)	WH	2 (OUT2)	RS485(A)

Selection list

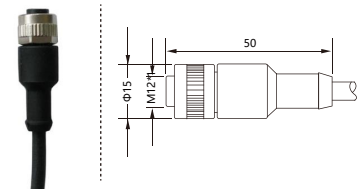
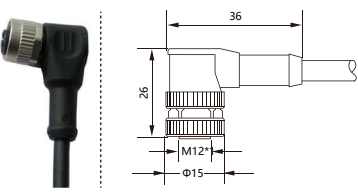
PSKA-	B	100	G14M	-	detail
PSKA-					Electronic pressure switch
	B				Gauge
	F				negative pressure
		0001			Measuring range: -10...10KPa or 0...10KPa
		0006			Measuring range: -60...60KPa or 0...60KPa
		001			Measuring range: -1...1bar or 0...1bar
		002			Measuring range: -1...2bar or 0...2bar
		005			Measuring range: -1...5bar or 0...5bar
		010			Measuring range:0...10bar
		025			Measuring range:0...25bar
		060			Measuring range:0...60bar
		100			Measuring range:0...100bar
		160			Measuring range:0...160bar
		250			Measuring range:0...250bar
		400			Measuring range:0...400bar
		600			Measuring range:0...600bar
		1000			Measuring range:0...1000bar
			G14M		G1/4 External thread
			G12M		G1/2 External thread
			G14K		G1/4 internal thread
			N14M		NPT1/4 External thread
			R14M		R1/4 External thread
			M20M		M20*1.5 External thread
				-	Output signal: switch/frequency
				A	Output signal: analog 4-20mA
				V	Output signal: analog 1-5V
				RS	Output signal: RS485

Factory standard: ZL03-PC02G

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-4Pin (2m cable)		PUR	ZL03-PU02G
M12*1-4Pin (5m cable)			ZL03-PU05G
M12*1-4Pin (10m cable)			ZL03-PU010G
M12*1-4Pin (2m cable)		PUR	ZL03-PC02G
M12*1-4Pin (5m cable)			ZL03-PC05G
M12*1-4Pin (10m cable)			ZL03-PC010G
M12*1-4Pin (2m cable)		PVC	ZL03-PU02W
M12*1-4Pin (5m cable)			ZL03-PU05W
M12*1-4Pin (10m cable)			ZL03-PU010W
M12*1-4Pin (2m cable)		PVC	ZL03-PC02W
M12*1-4Pin (5m cable)			ZL03-PC05W
M12*1-4Pin (10m cable)			ZL03-PC010W

M12* 1-4pin self-connector/size drawing (mm)	model
	GL04 (4Pin joint)
	WL04 (4Pin joint)

Factory standard: ZL04-PC02G

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-4Pin (2m cable)		PUR	ZL04-PU02G
M12*1-4Pin (5m cable)			ZL04-PU05G
M12*1-4Pin (10m cable)			ZL04-PU010G
M12*1-4Pin (2m cable)		PVC	ZL04-PC02G
M12*1-4Pin (5m cable)			ZL04-PC05G
M12*1-4Pin (10m cable)			ZL04-PC010G
M12*1-4Pin (2m cable)		PUR	ZL04-PU02W
M12*1-4Pin (5m cable)			ZL04-PU05W
M12*1-4Pin (10m cable)			ZL04-PU010W
M12*1-4Pin (2m cable)		PVC	ZL04-PC02W
M12*1-4Pin (5m cable)			ZL04-PC05W
M12*1-4Pin (10m cable)			ZL04-PC010W