

Features

- 3V excitation, Battery operation available
- Volt level output
- On-chip amplification and temperature compensations
- Pre-calibration of offset voltage and span
- Non-corrosive liquid measurable (X3PMC, X3HMC only)

Applications

- Industrial instrumentation
- Pressure switch, Pneumatic device
- Medical device

Part number for ordering

X3PM C - 025KP G R


Model
X3PM
X3HM

Rated pressure (Pa)

Available pressure media
No mark : Non-corrosive gas only
C : Non-corrosive gas and liquid

Terminal leads direction(See Outline Diagram)

No mark : 

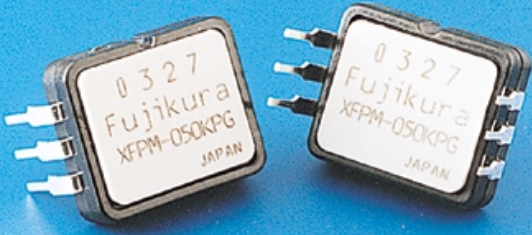

R : 

Pressure type

G : Gauge (Positive pressure)

GV : Gauge (Negative pressure)

GW : Gauge (Bipolar pressure)

Pressure type	Gauge pressure	
	X3PM	X3HM
Model		
Package configuration	Dual-In-line-Package (DIP)	Horizontal pressure port DIP

Measurable pressure range (kPa)	Part number for ordering							
—100~100	X3PM-100KPGW	X3PM-100KPGWR	X3PMC-100KPGW	X3PMC-100KPGWR	X3HM-100KPGW	X3HM-100KPGWR	X3HMC-100KPGW	X3HMC-100KPGWR
0~—100	X3PM-100KPGV	X3PM-100KPGVR	X3PMC-100KPGV	X3PMC-100KPGVR	X3HM-100KPGV	X3HM-100KPGVR	X3HMC-100KPGV	X3HMC-100KPGVR
0~25	X3PM-025KPG	X3PM-025KPGR	X3PMC-025KPG	X3PMC-025KPGR	X3HM-025KPG	X3HM-025KPGR	X3HMC-025KPG	X3HMC-025KPGR
0~50	X3PM-050KPG	X3PM-050KPGR	X3PMC-050KPG	X3PMC-050KPGR	X3HM-050KPG	X3HM-050KPGR	X3HMC-050KPG	X3HMC-050KPGR
0~100	X3PM-100KPG	X3PM-100KPGR	X3PMC-100KPG	X3PMC-100KPGR	X3HM-100KPG	X3HM-100KPGR	X3HMC-100KPG	X3HMC-100KPGR
0~200	X3PM-200KPG	X3PM-200KPGR	X3PMC-200KPG	X3PMC-200KPGR	X3HM-200KPG	X3HM-200KPGR	X3HMC-200KPG	X3HMC-200KPGR
0~1000	X3PM-001MPG	X3PM-001MPGR	X3PMC-001MPG	X3PMC-001MPGR	X3HM-001MPG	X3HM-001MPGR	X3HMC-001MPG	X3HMC-001MPGR

Specifications

Model/Rated pressure	100KPGW	100KPGV	025KPG	050KPG	100KPG	200KPG	001MPG	Unit
Recommended operating conditions								
Pressure type	Gauge pressure							—
Rated pressure	±100	—100	25	50	100	200	1000	kPa
Measurable pressure range	±1.020	—1.020	0.255	0.510	1.020	2.040	10.20	kg/cm ²
Pressure media ※1	—100~100							kPa
Excitation voltage	0~—100							—
Absolute maximum rating	0~25							VDC
Maximum load pressure	0~50							—
Maximum excitation voltage	Twice of rated pressure							1.5times of rated pressure
Operating temperature	6							VDC
Storage temperature	—10~80							°C
Operating humidity	—20~100							°C
Electric performances/characteristics (Excitation voltage Vcc=3.0V constant, Ambient temperature Ta=25°C)	30~80 (No dew condensation)							%RH
Current consumption	less than 6							mA
Output impedance	less than 10							Ω
Source current	less than 0.2							mA
Sink current	less than 2							mA
Mechanical response time	2 (For the reference)							msec
Full scale span voltage	1.5							V
Offset voltage※2	0.5±0.0375							V
Full scale span voltage※2	2.0±0.0375							V
Accuracy ※2	±2.5							%FS/0~50°C

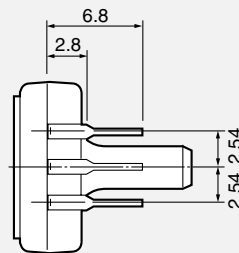
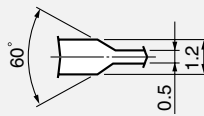
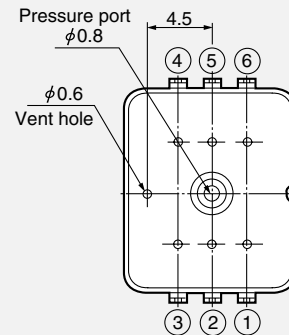
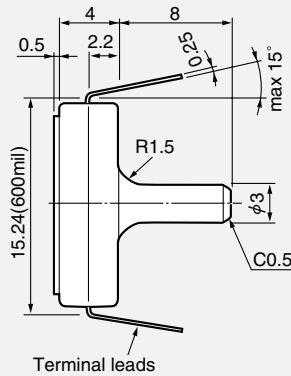
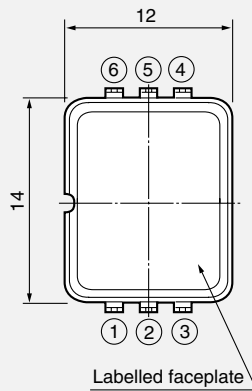
Note ; ※1) Please consult us available liquid pressure media when you choose the C models.

※2) Excluding input voltage error.

Outline dimensions

unit (mm)

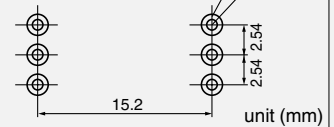
X3PM



Recommended footprint for PCB

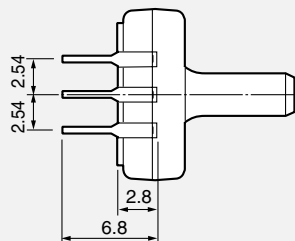
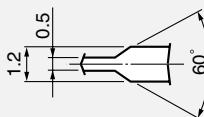
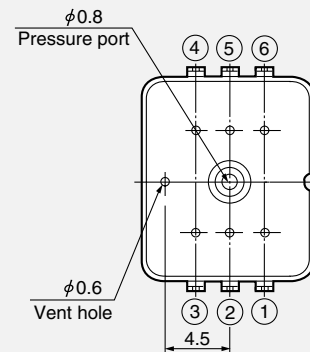
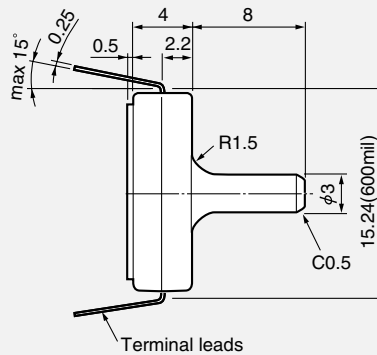
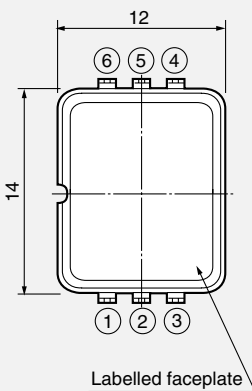
6- φ0.9(Diameter of through holes)

6- φ1.8(Diameter of lands)



X3PM-R

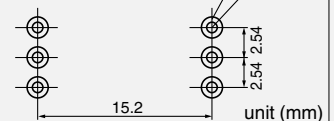
unit (mm)



Recommended footprint for PCB

6- φ0.9(Diameter of through holes)

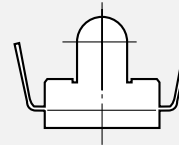
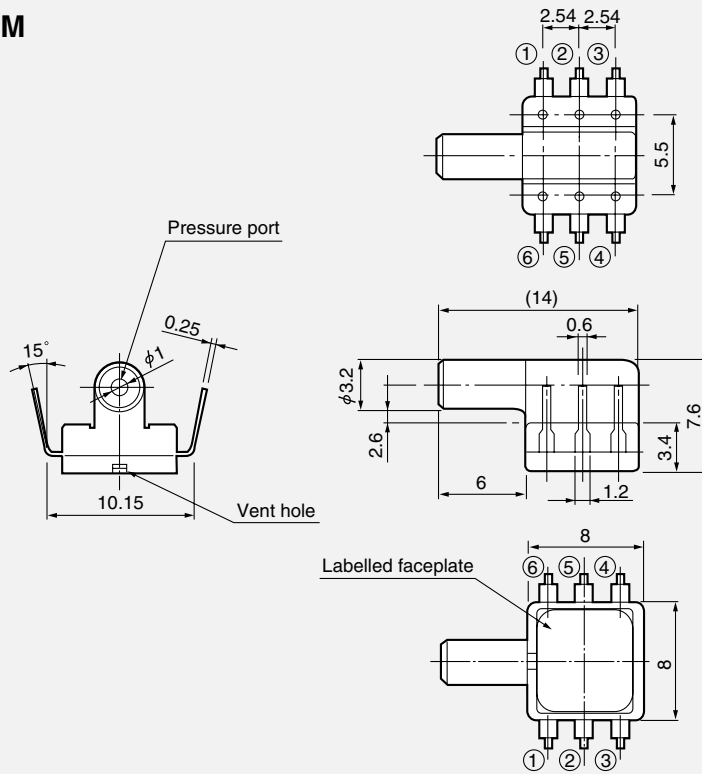
6- φ1.8(Diameter of lands)



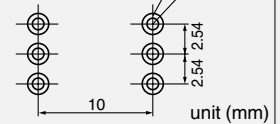
Outline dimensions

unit (mm)

X3HM

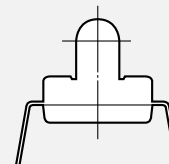
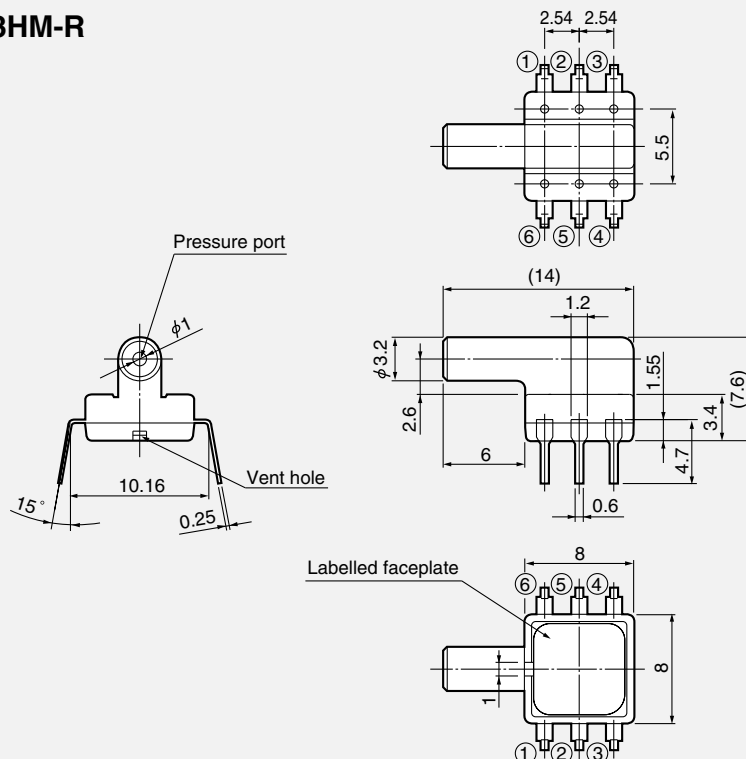


Recommended footprint for PCB

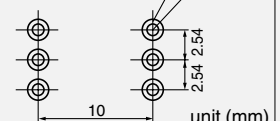
6- $\phi 1$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

unit (mm)

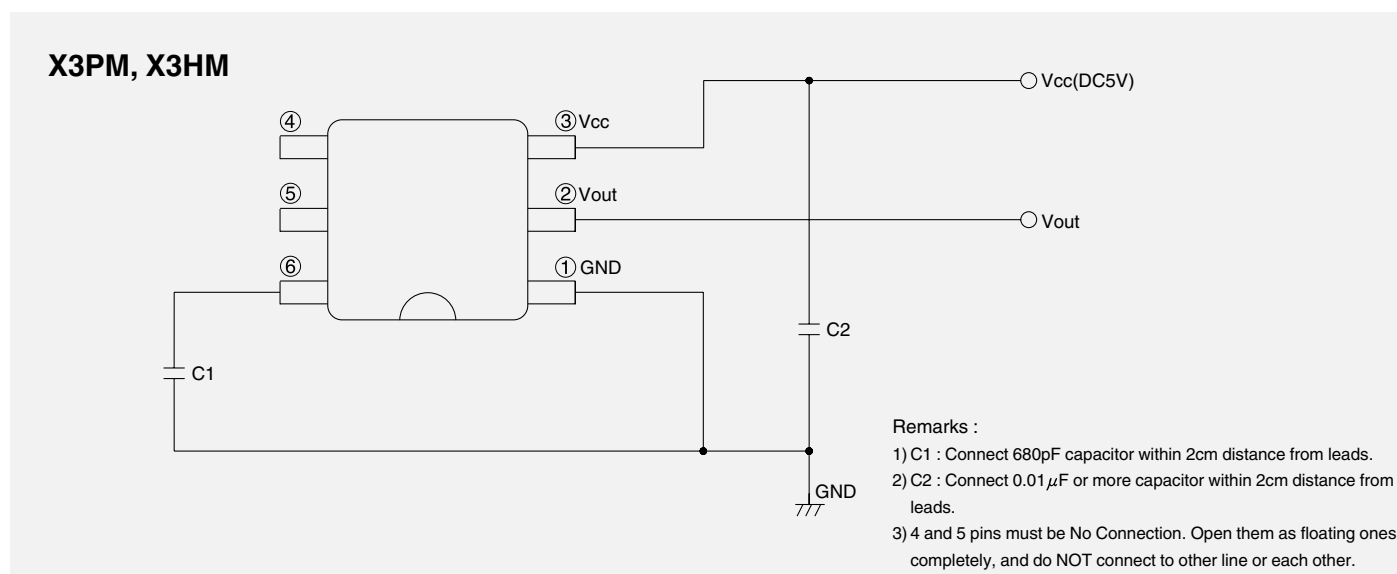
X3HM-R



Recommended footprint for PCB

6- $\phi 1$ (Diameter of through holes)6- $\phi 1.8$ (Diameter of lands)

■ Connection diagram ■



Note ; Please read instruction "Notes" before using the sensor.
Fujikura reserves the right to change specifications without notice.

Fujikura Ltd.

If you have any questions regarding technical issues or specifications, please contact us.
Sensor Engineering Department 5-1 Kiba 1-chome, Koto-ku, Tokyo 135-8512, Japan
Phone +81-(0)3-5606-1072 Fax. +81-(0)3-5606-1538
E-mail : sensor@fujikura.co.jp