



# PRODUCT MANUAL

## **W N K 8 0 M A**

Hefei WNK Smart Technology Co., Ltd.

TEL:0551-65369666 E-mail:sales@wnksensor.com

WEB:www.wnksensor.com

ADDRESS:

CN,Anhui,Hefei,Area A And B, 5th Floor, Plant 2,  
Mingzhu Industrial Park, No. 106 Chuangxin Avenue,  
High-Tech Zone.

# PRODUCT INTRODUCTION

WNK80MA is a ceramic pressure sensor designed for general industrial and commercial use with a wide range of applications.

Using ASIC signal conditioning chip and dry ceramic capacitor pressure sensor, it has the characteristics of anti-corrosion, anti-wear, anti-shock and vibration. In addition, the ceramic capacitor pressure sensor has high temperature stability and time stability, and can be in direct contact with most media.



## APPLICATION



**WATER  
PRESSURE**



**AIR  
PRESSURE**



**OIL  
PRESSURE**



**AGRICULTURAL  
IRRIGATION**



**FOOD**



**MEDICINE**



**HVAC**



**REFRIGERANT**

## FEATURES

- Multiple Process Connection Options – Ease of installation.
- 1% Typical Accuracy – Offers superior accuracy which can work well for critical applications.
- Factory Calibrated – No need for field calibration. Plug and play reliability.
- Rugged, Compact Design – Easy to package or install.
- OEM/ODM Available – Adaptable to special needs.
- IP65 UL listed, RoHS, and CE compliant.
- 12 Months warranty.



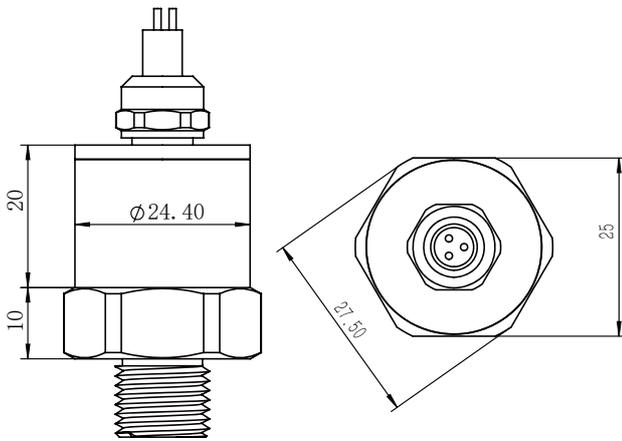
## SPECIFICATION PARAMETERS

Model	WNK80MA				
Type	Gauge pressure Seal pressure				
Range	0-60bar				
Overload pressure	150%				
Failure pressure	200%				
Signal output	0.5-4.5V	I2C	4-20mA	1-5V	0-10V Others
Scope of power supply	5V	3.3-5V	12-30V	9-30V	12-30V
Zero temperature drift	2%				
Accuracy	1%FS				
Acquisition frequency	2.4KHZ				
Start time	150ms				
Working temperature	-20~70℃				
Storage temperature	-20~70℃				
Protection level	IP65				
Electrical connection	Cable outlet	Mini DIN43650	Packard	M12 4Pin	
Process connection	G1/4	1/4NPT	M20x1.5		
	M10x1	GX12-3	G1/8	1/8NPT	
	7/16-20UNF Female		Other		

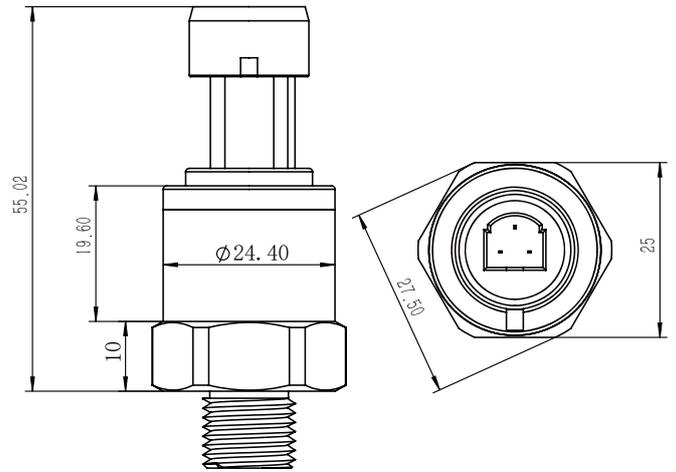
Output	0.5-4.5v	I2C	4-20mA	1-5V	0-10V
Supply Voltage	4.75-5.25v	3.3-5V	8-30V	9-30V	12-30V

# PRODUCT SIZE

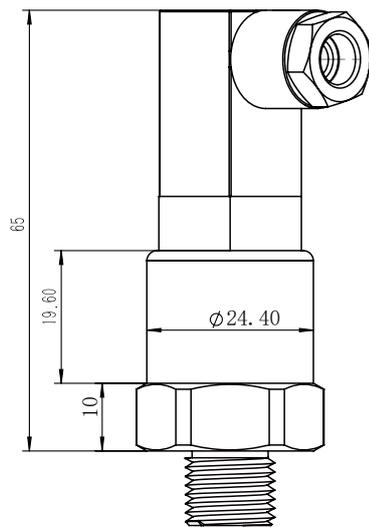
Unit:mm



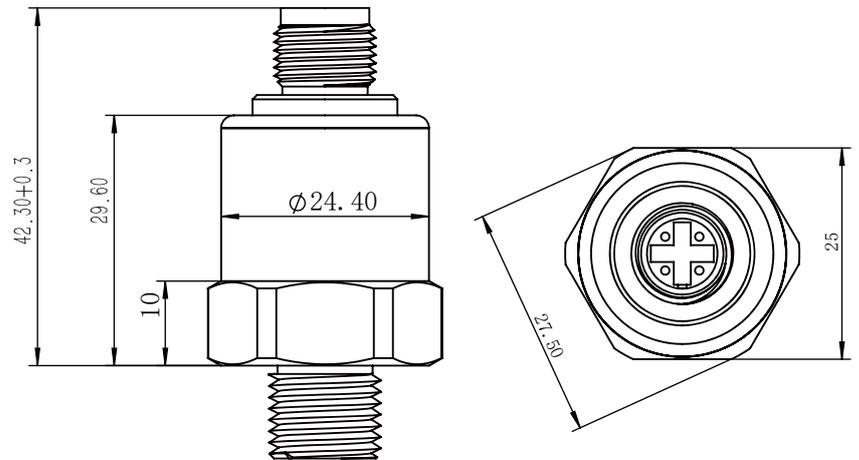
Cable outlet



Packard



Mini DIN43650



M12 4Pin

# ELECTRICAL CONNECTION

Packard		M12 4Pin		Cable Outlet			Mini DIN43650		
C1		C2		C3			C4		
4-20mA	Voltage	4-20mA	Voltage	4-20mA	Voltage	I2C	4-20mA	Voltage	
Red/Pin1 Black/Pin2	VCC GND	Red/Pin1 Black/Pin2 Yellow/Pin3	VCC GND VOUT	Brown/Pin1 White/Pin2 Blue/Pin3	VCC GND VOUT	Red Black	VCC GND	Red Black Yellow	VCC GND VOUT
		I2C	Brown/Pin1 White/Pin2 Blue/Pin3 Black/Pin4	VCC SCL GND SDA		Red Black Yellow White	VCC SCL GND SDA		

# PROCESS CONNECTION

Thread	G1/4	1/4 NPT	G 1/8
Unit:mm The hexagon is 24mm			
Number	P1	P2	P3

Thread	1/8 NPT	M12x1.5	M10x1	7/16-20UNF Female
Unit:mm The hexagon is 24mm				
Number	P4	P5	P6	P7



# SELECTION GUIDE

## Pressure Type

Gauge pressrue	G
Sealing pressure	S

## Range

10bar	A
20bar	B
30bar	C
40bar	D
50bar	E
60bar	F

## Electrical Connector

Packard	C1
M12 4pin	C2
Cable outlet	C3
Mini DIN43650	C4
GX12-3	C5
Others	CX

## Output

0.5-4.5V	1
4-20mA	2
I2C	3
0-10V	4
1-5V	5
Others	X

## Process Connection

G1/4	P1
1/4 NPT	P2
G1/8	P3
1/8 NPT	P4
M12x1.5	P5
M10x1	P6
7/16-20UNF Female	P7
Others	PX

Code:           G-A-C1-1-P1