



# **BANNING**

## **EMBEDDED TRANSMITTER**

### **BNPTM350J**



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## DESCRIPTION

BNPTM350J embedded flat film transmitter uses a flat film to directly sense the pressure signal, and uses a diffused silicon pressure core as a sensitive component, and uses standard silicone oil or olive oil as a pressure transmission medium. The flush welded diaphragm with special welding process has compact structure and corrosion resistance, which can prevent problems such as scaling, unsanitary and sticky pressure blocking.

## CHARACTERISTICS

- Using 316L flat diaphragm structure
- Hygienic, anti-scaling
- Stainless steel seal structure
- Small size, light weight and easy installation
- Very high vibration and shock resistance
- Measure absolute, gauge and seal pressure

## PERFORMANCE

Parameter	BNPTM350J
Measuring range	0 ~ 20kPa...25MPa
Pressure type	Gauge, Absolute, Sealed
Power supply	24V、12V
Output signal	4 ~ 20mA、1 ~ 5V、0.5 ~ 4.5V
Working temperature	-20 ~ 85
Medium temperature	-20 ~ 85
Storage temperature	-40 ~ 125
Zero temperature drift	± 2%FS ( @ -20 ~ 85 )
Sensitivity drift	± 2%FS ( @ -20 ~ 85 )
Pressure overload	150%FS
Mechanical vibration	20g ( 20 ~ 5000Hz)
Impact	100g ( 11ms )
Comprehensive accuracy	0.5level
Insulation resistance	100M /250VDC
Response time	1ms ( rise to 90%FS )
Long-term stability	± 0.2%FS/year
Protection grade	IP65
Material	Shell stainless steel;Clamp and diaphragm 316L
Medium compatible	Various media compatible with stainless steel

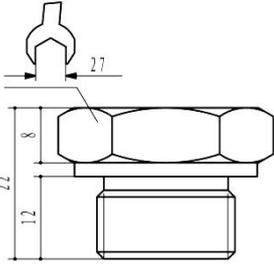
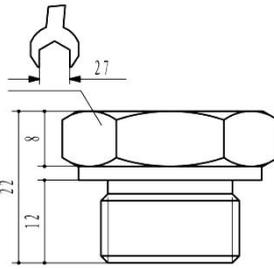
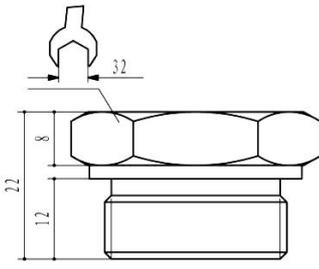
## APPLICATION

- Medical and health, food, brewing, dairy, beverage and other thick, easy to block, high sanitary requirements, easy to clean occasions; environmental protection chemical coatings, polyurethane equipment, paint detection system.

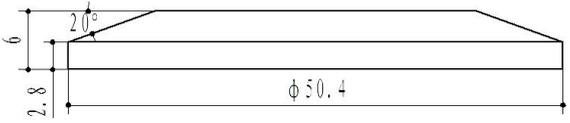
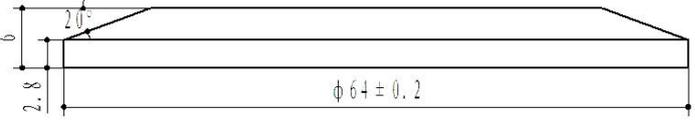
# EXTERNAL STRUCTURE

Type	J1: 2088 housing	J5: Big Hirschmann
<p>尺寸图 单位：mm</p>		
<p>Wiring (Current output)</p>		<p>Red Wiring: power + Green Wiring: current output</p>
<p>Wiring (Voltage output)</p>		<p>Red Wiring: power + Blue Wiring: Common Ground Yellow Wiring: voltage output</p>

## THREADED INTERFACE

Type	C1: M20× 1.5	C2: G1/2	C7: NPT1/2
Dimensions Unit : mm			

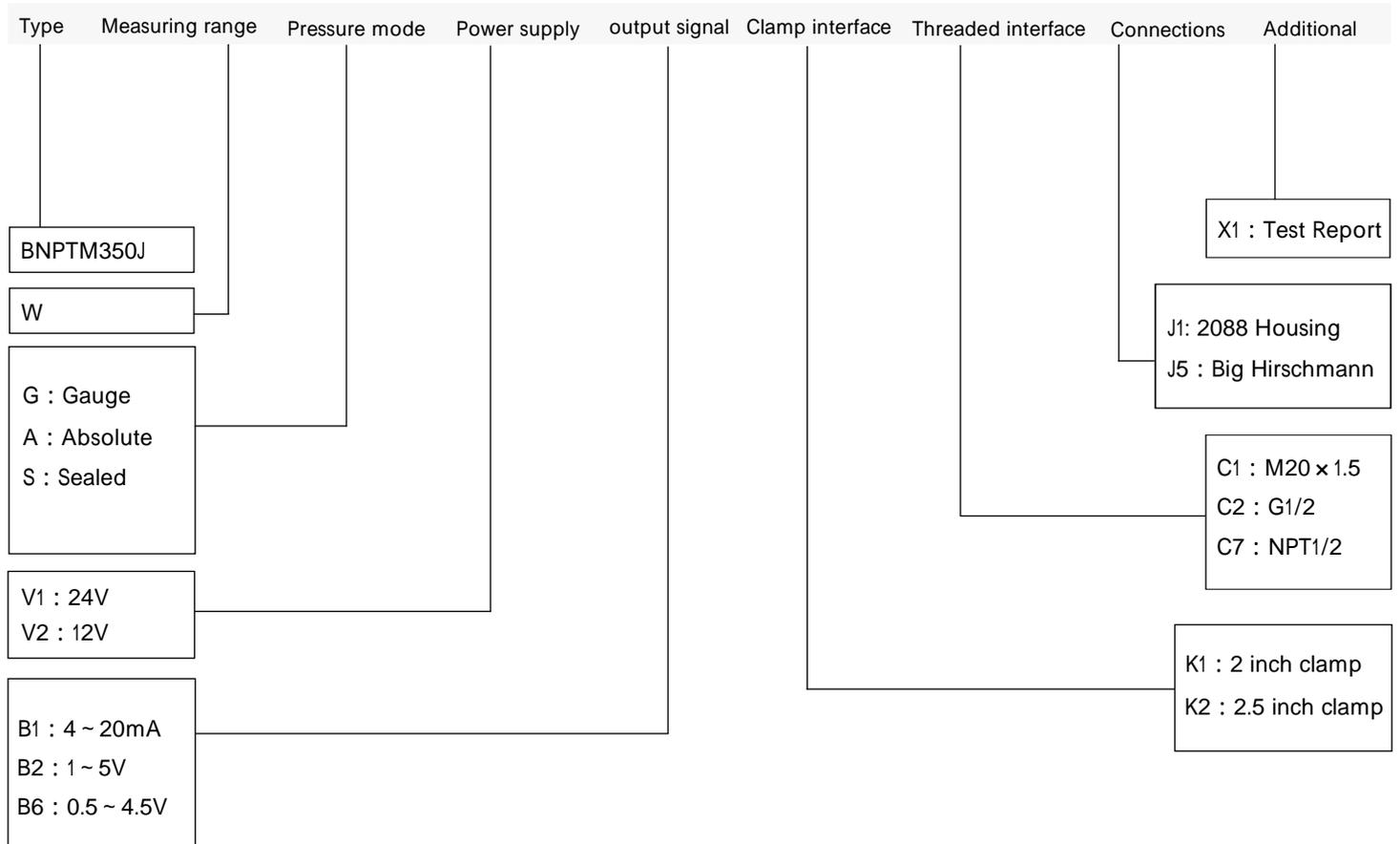
## CLAMP INTERFACE

K1: 2 inch clamp	K2: 2.5 inch clamp
	

## PRESSURE RANGE

Code	Measuring range	Code	Measuring range	Code	Measuring range	Code	Measuring range
W1	0 ~ 10kPa/0.01MPa	W6	0 ~ 160kPa/0.16MPa	W11	0 ~ 1.6MPa	W16	0 ~ 25MPa
W2	0 ~ 20kPa/0.02MPa	W7	0 ~ 250kPa/0.25MPa	W12	0 ~ 2.5MPa	W17	0 ~ 40MPa
W3	0 ~ 35kPa/0.035MPa	W8	0 ~ 400kPa/0.4MPa	W13	0 ~ 6MPa	W18	0 ~ 60MPa
W4	0 ~ 70kPa/0.07MPa	W9	0 ~ 600kPa/0.6MPa	W14	0 ~ 10MPa	W19	0 ~ 100MPa
W5	0 ~ 100kPa/0.1MPa	W10	0 ~ 1.0MPa	W15	0 ~ 16MPa	Please select according to product range	

# NOMENCLATURE



**FOR EXAMPLE:** BNPTM350J (W10)-G-V1-B2-C2-J1

The model is BNPTM350J, the range is 0 ~ 1.0MPa, the pressure mode is gauge pressure, the power supply is 24V, the output signal is 1 ~ 5V, the thread interface is G1 / 2, and the electrical connection is 2088 case.

## NOTE

- The standard cable is 1.5 meters, and the excess is charged according to the length.
- If there are special requirements for product appearance and performance parameters, our company can provide customization.

# DISCLAIMER

## Warning

### LIFE OR PROPERTY RISK

- Please ensure that this product has been designed as part of whole system and already considered related risks, make sure the product has the correct ratings and is designed based on the entire system. It must not be used when applications related to serious life or property damage risks.

Failure to follow this instruction can result in death or serious injury.

## Warning

### PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to follow this instruction can result in death or serious injury.

## Warning

### MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to follow this instruction can result in death or serious injury.

## Warranty/Remedy

Banning warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Banning's standard product warranty applies unless agreed to otherwise by Banning in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Banning during the period of coverage, Banning will repair or replace, at its option, without charge those items that Banning, in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Banning be liable for consequential special, or indirect damages.

While Banning may provide application assistance personally, through our literature and the Banning web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Banning assumes no responsibility for its use.

## SALES & SERVICE

Banning serves its clients through a worldwide network of sales offices, agents and distributors. For application assistance specifications, prices or names with the nearest authorized dealer, please contact your sales specialist or contact us directly:

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