

Model PLN/PLA

Depth and Level Transmitter

Description

PL model, the highest precise pneumatic level transmitter, is waterproof up to a depth of 350m and uses the polyurethane vented cable being used in seawater and performing atmospheric compensation. It is appropriate for deep wells and tank level. Depending on the embeded place of an amp. this PL model has both PLN(External amp.) and PLA(Internal amp.). Refer to the dimension.

Features

- ▶ 4~20mA output
- ▶ Gauge and absolute measurement
- ▶ 0.15%FS accuracy
- ▶ Diameter: PLN($\phi 21$), PLA($\phi 27$)
- ▶ Fully sealed construction
- ▶ Vented polyurethane cable
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel(316L) media-wetted materials

Applications

- ▶ Tank Level Measurement
- ▶ Deep Well Measurement
- ▶ Ship & Marine System
- ▶ Ground & Surface Water Monitoring
- ▶ Geophysical Application
- ▶ Water Supply & Reservoirs

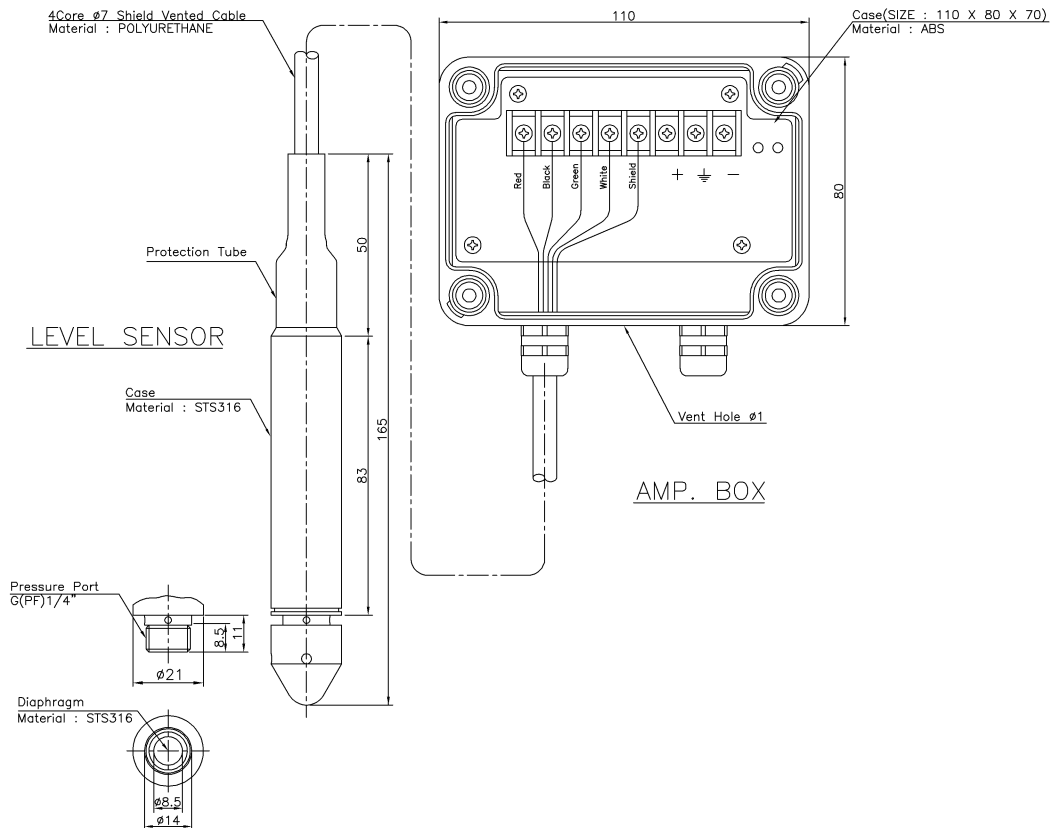


Specifications

	PLN	PLA
Range	0~0.5, 1, 2, 3, 5, 10, 20, 30, 50, 70, 200, 350 mH ₂ O (Gauge) 0~10, 20, 30, 50, 70, 200, 350 mH ₂ O (Absolute)	
Performance		
Accuracy	$\pm 0.15\%FS(RSS)$	
Thermal Effect on Zero	$\pm 0.03\%FS/^{\circ}C$	
Thermal Effect on Span	$\pm 0.03\%FS/^{\circ}C$	
Compensated Temperature Range	0 ~ 70 $^{\circ}C$	
Operating Temperature Range	-20 ~ 80 $^{\circ}C$	
Electrical		
Excitation	11 ~ 28VDC	
Output	4~20mA(2Wire), 1~5VDC	4~20mA(2Wire)
Electrical Connection	AMP. BOX	$\phi 7$ Vented Tube Polyurethane Cable
Physical		
Proof Pressure	300%FS Max.	
Burst Pressure	500%FS Min.	
Vibration	49.1m/s ² {5G}, 10~500Hz	
Shock	490m/s ² {50G}	
Protection	Sensor : IP68	IP68
Media-Wetted Materials	Stainless Steel 316L	Stainless Steel 316L, VITON
Weight	Approx. Sensor 100g, Amp 300g	Approx. Sensor 350g

Dimension

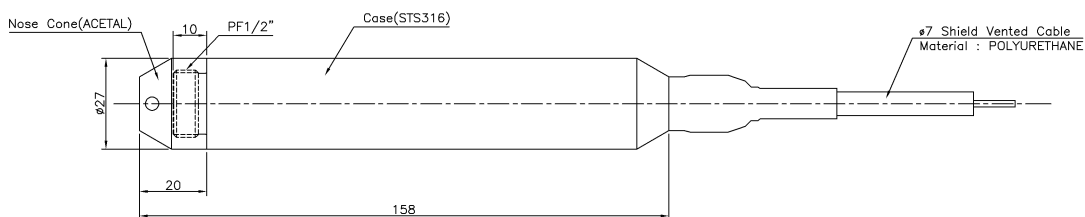
► PLN Model(External Amp.)



Pin No.	Connections (3Wire)
EXC+	Input $\oplus$
GND	Common $\ominus$
SIG+	Output $\oplus$
$\oplus$	Earth

Pin No.	Connections (2Wire)
$\oplus$	Input $\oplus$
$\ominus$	Earth
$\ominus$	Output $\oplus$

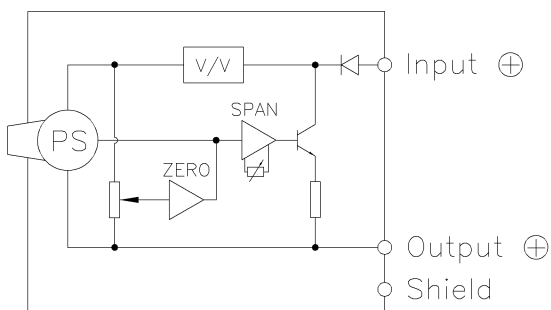
► PLA Model(Internal Amp.)



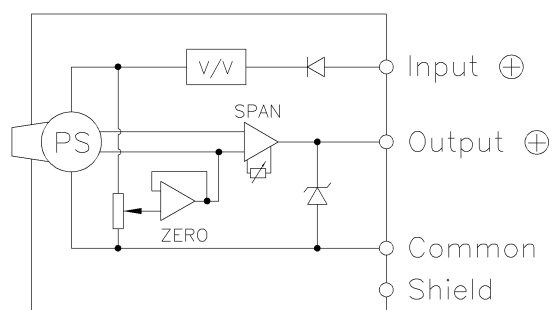
Wire Color	Connections
Red	Input $\oplus$
Black	Output $\oplus$
Shield	Earth

Internal Circuit Diagram

► 2Wire mA Output Type



► 3Wire VDC Output Type



Ordering Information

PLN		H	0010		K	0	J	G		
Model Name					Type of Pressure Measurement					
PLN(External amp.)					G : Gauge					
PLA(Internal amp.)					J : Absolute					
Output					Connecting Methods					
E : 1~5VDC					J : Vented Cable					
H : 4~20mA(2Wire)										
Pressure Range					Pressure port					
XXXX : Pressure					0 : Nose Cone					
Pressure Unit					D : G(PF)1/4"					
R : kPa					Q : G(PF)1/2"					
M : MPa										
B : bar										
K : kgf/cm²										
P : psi										
H : mmHg										
C : cmH₂O										