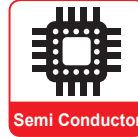


**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Anahtar Çıkışı / Compact Pressure Sensor- Switch Output**



**Özellikleri / Features**

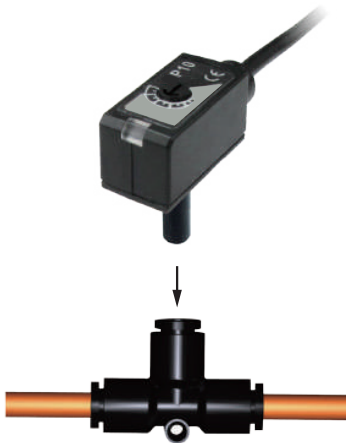
- Simple installation, plug-in port or thread-in fitting
- Set pressure range :
  - 3-wire type : Vacuum ( 0 ~ -101.3 kPa )
  - Positive ( 0 ~ 0.6 MPa )
  - 2-wire type : Normally Open /
  - Normally Close ( - 0.1 ~ 0.6 MPa )



**Özellikler / Features Highlight**

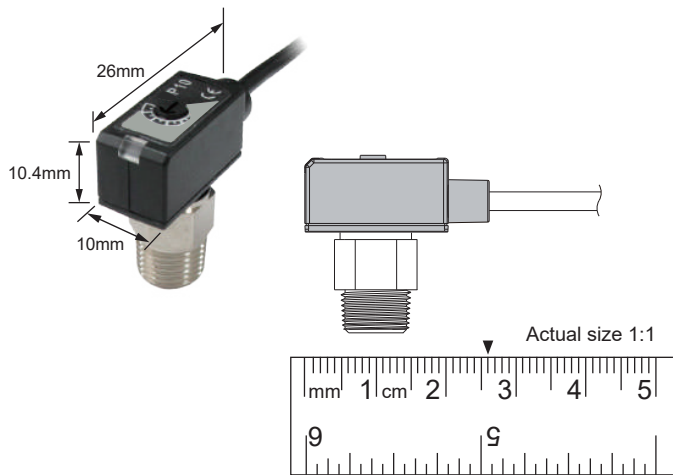
**1 Simple Installation**

- Plug-in port for push-to-connect fittings

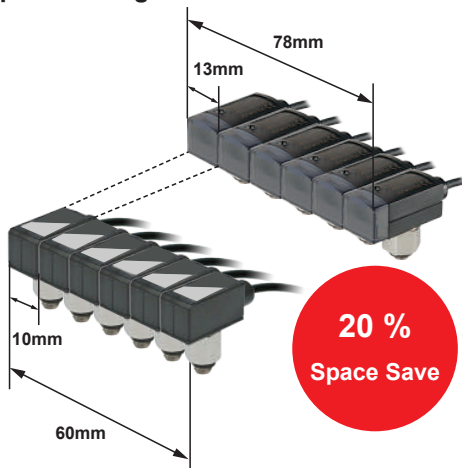


**2 Compact Size**

- Extremely compact size 26(L) × 10(W) × 10.4(H) mm to fit the most confined areas



**3 Space-Saving**



**4 Sensor Installed Close to Pad**



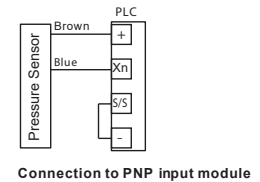
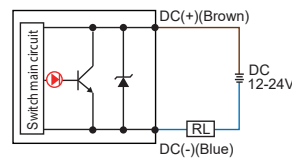
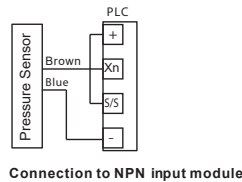
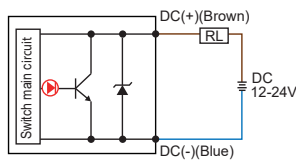
**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Anahtar Çıkışı / Compact Pressure Sensor- Switch Output**

Özellikler / Specifications

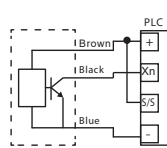
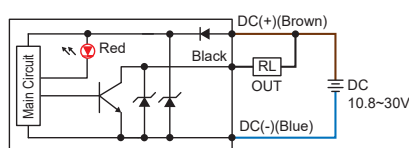
MODEL	P10A	P10B	P10V-02/04	P10P-02/04
Set Pressure Range	- 0.1 ~ 0.6 MPa		0 ~ - 101.3 kPa	0 ~ 0.6 MPa
Withstand Pressure	1.5 MPa		0.6 MPa	1.5 MPa
Fluid	Air, Non-corrosive / Non-flammable gas			
Load Voltage	12 to 24 V DC $\pm$ 10 %, Ripple ( P-P ) $\leq$ 10 %		10.8 to 30 V DC ( include ripple voltage )	
Load Current	5 ~ 40 mA		$\leq$ 80 mA	
Leak Current	$\leq$ 1 mA		-	
Internal Voltage Drop	$\leq$ 5 V		NPN $\leq$ 0.8 V, PNP $\leq$ 0.8 V	
Current Consumption	-		$\leq$ 10 mA	
Switch Output	Present Press. $\geq$ Set Press. : ON	Present Press. $\geq$ Set Press. : OFF	NPN or PNP	
Output Short Circuit Protection	No		Yes	
Setting Method	Adjusting by VR			
Repeatability	$\pm$ 1 % F.S.			
Response Time	Approx. 1 ms			
Hysteresis	$\leq$ 4 % F.S.		$\leq$ 3 % F.S.	
Switch on Indicator	Indicator Red : ON			
Enclosure	IP40			
Temperature Characteristic	$\pm$ 3 % F.S. of detected pressure ( 25 °C ) at temp. Range of 0 ~ 50 °C			
Ambient Temp. Range	Operation : 0 ~ 60 °C ( 32 ~ 140 °F ), Storage : -20 ~ 70 °C ( -4 ~ 158 °F ) ( No condensation or freezing )			
Ambient Humidity Range	Operation / Storage : 35 ~ 85 % RH ( No condensation )			
Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz - 55 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z			
Shock	980 m/s <sup>2</sup> ( 100 G ), 3 times each in direction of X, Y and Z			
Piping Size	R4 : $\varnothing$ 4 mm ; R6 : $\varnothing$ 6 mm ; F1 : R1/8" , M5 ; F2 : NPT1/8" , M5 ; F3 : G1/8" ( BSPP ) , M5 ; M5 : M5 * 0.8			
Lead Wire	Oil-resistance cable, 2 / 3 wires ( 0.18 mm <sup>2</sup> ), $\varnothing$ 2.6			
Weight ( with 3 meter lead wire )	Approx. 50 g			

Devre Bağlantı Şemaları / Circuit Wiring Diagrams

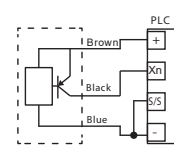
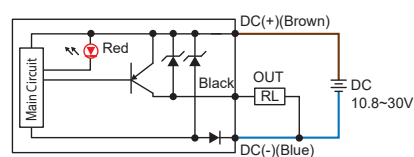
**P10A & P10B**



**P10□ - 02 - □ - □**  
NPN Output

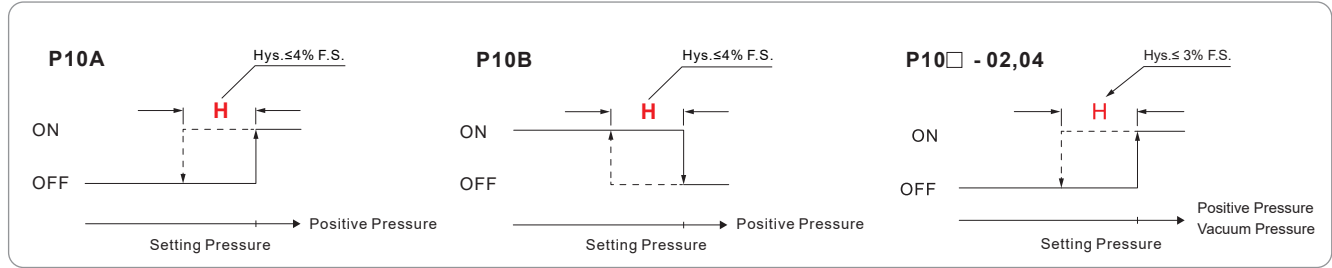


**P10□ - 04 - □ - □**  
PNP Output



**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Anahtar Çıkışı / Compact Pressure Sensor- Switch Output**

**Çıkış Tipi / Output Type**



**Sipariş Bilgileri / Ordering Information**

**P 1 0 A - R 4 - [ ]**

**Switch Specifications**

A : Switch turns ON when the pressure is larger than setting pressure. ( Normally Open )  
 B : Switch turns OFF when the pressure is larger than setting pressure. ( Normally Close )

**P 1 0 V - 0 2 - R 4 - [ ]**

**Pressure Range**

V : Vacuum ( 0 ~ -101.3 kPa )  
 P : Positive ( 0 ~ 0.6 MPa )

**Output Specification**

02 : NPN output  
 04 : PNP output

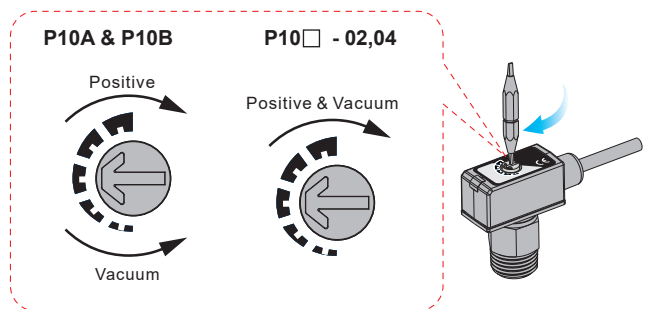
**Cable Length / Connector**

Blank : With 3 meter cable  
 C : With M8, 3Pin male connector

Pressure Port	R4	R6	F1 / F2 / F3	M5
Appearance				
Port size	R4 : Ø4 mm	R6 : Ø6 mm	F1 : R1/8", M5 F2 : NPT1/8", M5 F3 : G1/8" ( BSPP ), M5	M5 : M5 * 0.8

**Basınç Nasıl Ayarlanır / How to Set Pressure**

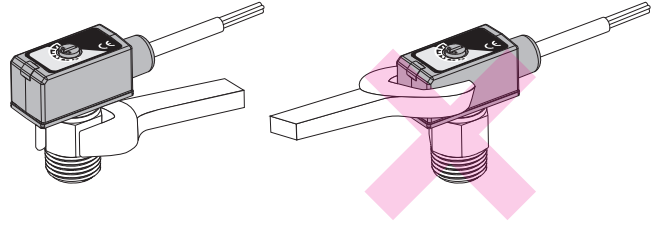
- Use the pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint. Rotate counter-clockwise to decrease pressure setpoint.
- Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. To prevent damage to the pressure setting trimmer, DO NOT force the trimmer when it comes to a stop.



**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Anahtar Çıkışı / Compact Pressure Sensor- Switch Output**

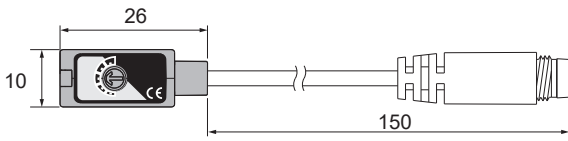
**Kurulum Önlemleri / Installation Precautions**

- When mounting, always use the wrench on the metallic area near the pressure port. Never apply a wrench to the plastic body, it will damage the sensor.
- Over tightening may cause damages to the port thread, mounting bracket and pressure sensor. Under tightening may result loosen or leakage.
- Apply pressure and power after installation and make necessary adjustments and inspect any possible signs of leakage to ensure proper installation.



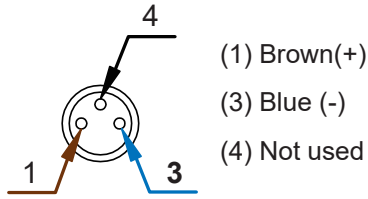
**Boyutlar / Dimensions**

**P10□- 02, 04 - □ - C**



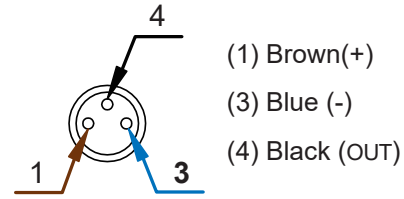
**QD PINOUT**

**P10A - □ - C、 P10B - □ - C**

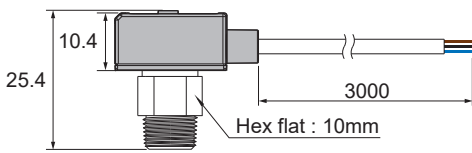


**QD PINOUT**

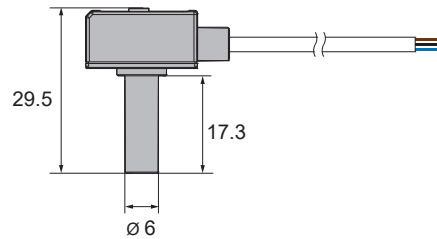
**P10 □ - 02, 04 - □ - C**



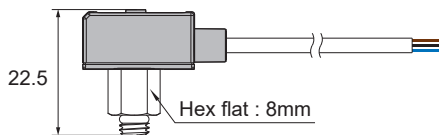
**P10□- 02, 04 - F1, F2, F3**



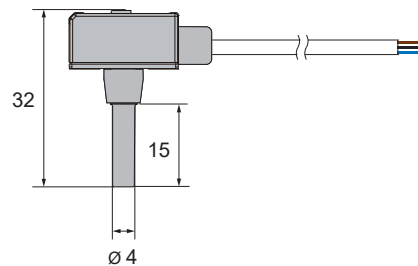
**P10□- 02, 04 - R6**



**P10□- 02, 04 - M5**



**P10□- 02, 04 - R4**



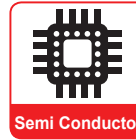
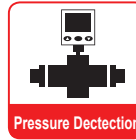
Unit : mm

**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Analog Çıkış / Compact Pressure Sensor- Analog Output**



**Özellikleri / Features**

- Simple installation, plug-in port or thread-in fitting
- Compact size : 26 × 10 × 10.4 mm
- Rated pressure range :
  - Compound ( -100 ~ 100 kPa )
  - Compound ( -101 ~ 500 kPa )
  - Low ( 0 ~ 100 kPa )
  - Vacuum ( 0 ~ -101.3 kPa )
  - Positive ( 0 ~ 1.0 MPa )
  - Micro pressure S1 ( 0 ~ 10 kPa )
  - Micro pressure S2 ( 0 ~ 5 kPa )



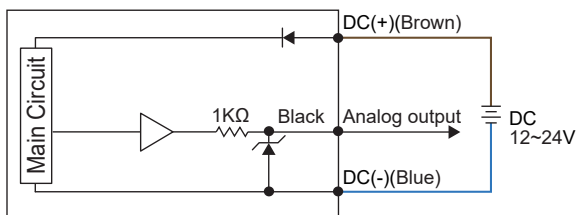
**Özellikler / Specifications**

MODEL	P10S1	P10S2	P10C-01	P10L-01	P10V-01	P10R-01	P10P-01
Rated Pressure Range	0 ~ 10 kPa	0 ~ 5 kPa	-100 ~ 100 kPa	0 ~ 100 kPa	0 ~ -101.3 kPa	-101 ~ 500 kPa	0 ~ 1.0 MPa
Withstand Pressure	20 kPa		0.2 MPa			1.5 MPa	
Fluid	Filtered air, Non-corrosive / Non-flammable gas						
Power Supply Voltage	12 to 24 V DC ( 5 % ripple voltage )						
Current Consumption	≤ 15 mA			≤ 10 mA			
Analog Output	1 ~ 5 V ± 1 % F. S. / Linearity ± 0.5 % F. S.		1 ~ 5 V ± 1 % F. S. / Linearity ± 0.5 % F. S.				
Enclosure	IP40						
Temperature Characteristic	± 3 % F.S. ( Range of 0 ~ 50 °C )			± 2 % F.S. ( Range of 0 ~ 50 °C )			
Ambient Temp. Range	Operation : 0 ~ 50 °C ( 32 ~ 122 °F ), Storage : -20 ~ 70 °C ( -4 ~ 158 °F ) ( No condensation or freezing )						
Ambient Humidity Range	Operation / Storage : 35 ~ 85% RH ( No condensation )						
Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz - 55 Hz - 10 Hz scan for 1 minute, two hours each direction of X, Y and Z						
Shock	980 m/s <sup>2</sup> ( 100 G ), 3 times each in direction of X, Y and Z						
Piping	R4 : ø4 mm ; R6 : ø6 mm ; F1 : R1/8", M5 ; F2 : NPT1/8", M5 ; F3 : G1/8" ( BSPP ) , M5 ; M5 : M5 * 0.8						
Lead Wire	Oil-resistance cable, 3 wires ( 0.18 mm <sup>2</sup> ), Ø 2.6 mm						
Weight ( with 3 meter lead wire )	Approx. 50 g						

**Devre Bağlantı Şemaları / Circuit Wiring Diagrams**

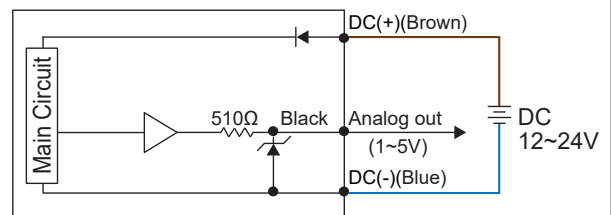
**P10S □ - 01 - □ - □**

**Analog Output ( 1 ~ 5 V )**



**P10 □ - 01 - □ - □**

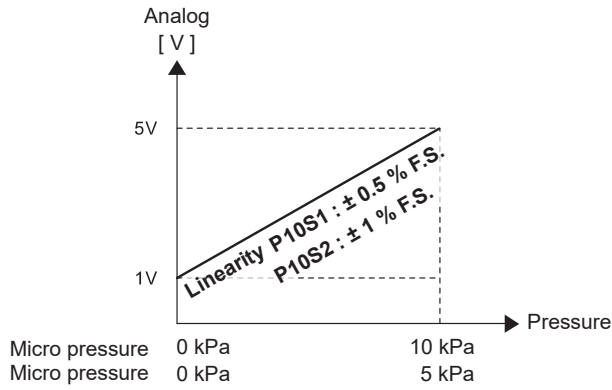
**Analog Output ( 1 ~ 5 V )**



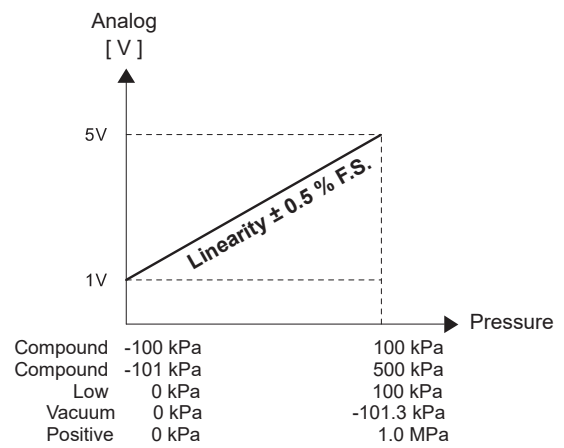
**WINMAN P-10A/B Serisi Kompakt Basınç Sensörü - Analog Çıkış / Compact Pressure Sensor- Analog Output**

**Çıkış Tipi / Output Type**

**P10S □ - 01 - □ - □**



**P10 □ - 01 - □ - □**



**Sipariş Bilgileri / Ordering Information**

**P 1 0 V - 0 1 - R 4 - □**

**Pressure Range**

C : Compound ( -100 ~ 100 kPa ) P : Positive ( 0 ~ 1.0 MPa )  
R : Compound ( -101 ~ 500 kPa ) S1 : Micro pressure ( 0 ~ 10 kPa )  
L : Low ( 0 ~ 100 kPa ) S2 : Micro pressure ( 0 ~ 5 kPa )  
V : Vacuum ( 0 ~ -101.3 kPa )

**Output Specification**

01 : Analog output  
( 1 ~ 5 V )

**Cable Length / Connector**

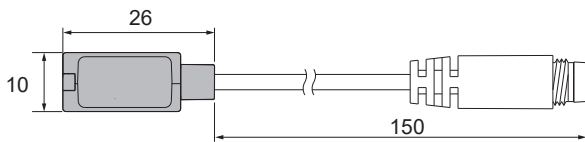
Blank : With 3 meter cable  
C : With M8 3Pin male connector

**Pressure Port**

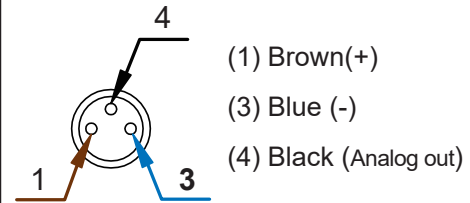
R4 : Ø4 mm      F2 : NPT1/8", M5  
R6 : Ø6 mm      F3 : G1/8" ( BSPP ), M5  
F1 : R1/8", M5      M5 : M5 \* 0.8

**Boyutlar / Dimensions**

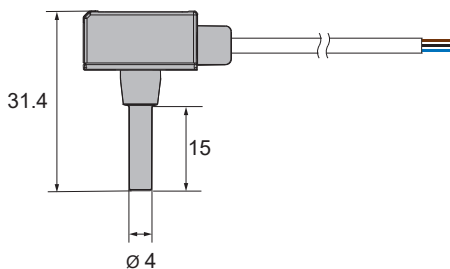
**P10□ - 01 - □ - C**



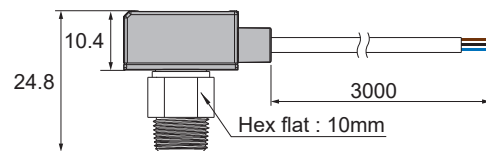
**QD PINOUT**



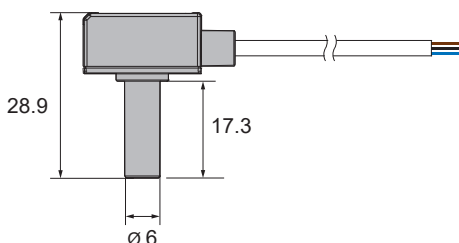
**P10□ - 01 - R4**



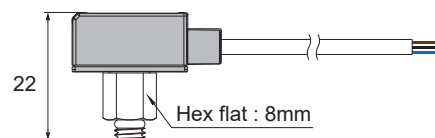
**P10□ - 01 - F1, F2, F3**



**P10□ - 01 - R6**



**P10□ - 01 - M5**



Unit : mm