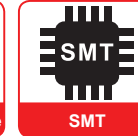
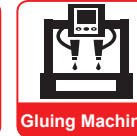


**WINMAN P-30 Serisi İnce Basınç Sensörü / P-30 Series Thin Pressure Sensor**



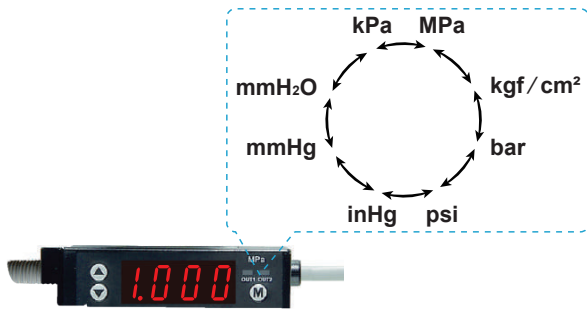
**Özellikleri / Features**

- Set pressure range :  
Compound ( -100.0 ~ 100.0 kPa )  
Vacuum ( 10.0 ~ -101.3 kPa )  
Positive ( -0.100 ~ 1.000 MPa )
- 2 outputs & analog output ( 1 ~ 5 V )
- Hysteresis adjustable
- Programmable pressure unit :  
kPa \ MPa \ kgf / cm<sup>2</sup> \ bar \ psi \ inHg \ mmHg \ mmH<sub>2</sub>O



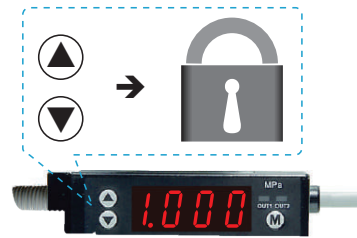
**Özellikler / Features Highlight**

**1 Programmable Pressure Unit**



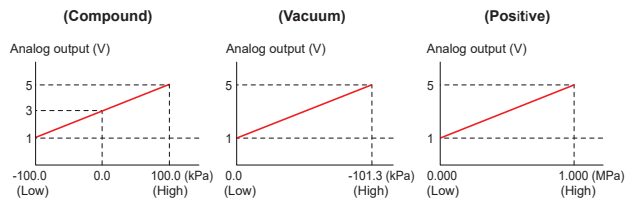
**2 Key Lock Function**

- Key lock mode to prevent unauthorized adjustments  
Press **(M)** more than 5 seconds to enter key lock mode  
Use **(▲)** or **(▼)** to select key lock status



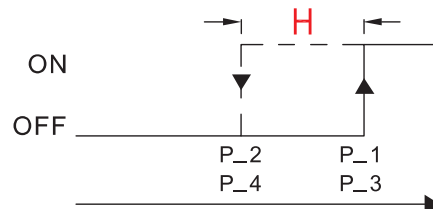
**3 Analog Output**

- 2 outputs & analog output ( 1 ~ 5 V )  
Output range 1 to 5 V, proportional to the pressure range



**4 Hysteresis adjustable**

- Output hysteresis (H) is adjustable by user

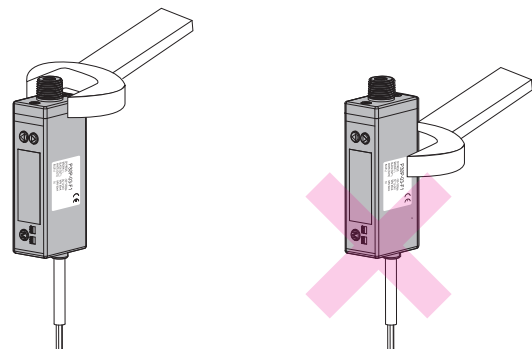


**WINMAN P-30 Serisi İnce Basınç Sensörü / P-30 Series Thin Pressure Sensor**
**Özellikler / Specifications**

MODEL		P30C (Compound)	P30V (Vacuum)	P30P (Positive)
<b>Rated Pressure Range</b>		-100.0 ~ 100.0 kPa	0.0 ~ -101.3 kPa	0.000 ~ 1.000 MPa
<b>Set Pressure Range</b>		-100.0 ~ 100.0 kPa	10.0 ~ -101.3 kPa	-0.100 ~ 1.000 MPa
<b>Withstand Pressure</b>		300 kPa		1.5 MPa
<b>Fluid</b>		Filtered air, Non-corrosive / Non-flammable gas		
<b>Set Pressure Resolution</b>	kPa	0.1		-
	MPa	-		0.001
	kgf / cm <sup>2</sup>	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	inHg	0.1		-
	mmHg	1		-
	mmH <sub>2</sub> O	0.1		-
<b>Power Supply Voltage</b>		12 to 24 V DC $\pm$ 10 %, Ripple ( P-P ) 10 % or less		
<b>Current Consumption</b>		$\leq$ 60 mA		
<b>Switch Output</b>		2NPN : open collector 2 outputs Max. Load Current : 100 mA Max. Supply Voltage : 30 V DC Residual Voltage : $\leq$ 1 V		2PNP : open collector 2 outputs Max. Load Current : 100 mA Max. Supply Voltage : 24 V DC Residual Voltage : $\leq$ 1 V
<b>Repeatability ( Switch Output )</b>		$\pm$ 0.2 % F.S. $\pm$ 1 digit		
<b>Hysteresis</b>	<b>Hysteresis Mode</b>	Adjustable		
	<b>Window Comparator Mode</b>	Fixed ( 3 digits )		
<b>Response Time</b>		$\leq$ 2.5 ms ( chattering-proof function : 24 ms, 192 ms and 768 ms selectable )		
<b>Output Short Circuit Protection</b>		Yes		
<b>Display</b>		3 ½ digit, 7 segment LED display ( Red ) ( Sampling rate : 5 times / sec. )		
<b>Indicator Accuracy</b>		$\pm$ 2 % F.S. $\pm$ 1 digit ( Ambient temperature : 25 $\pm$ 3 °C )		
<b>Switch on Indicator</b>		Indicator Green : OUT1 & Indicator Red : OUT2		
<b>Analog Output</b> ( Only Type P30 □ - 01 - □ , P30 □ - 03 - □ )		Output voltage : 1 to 5 V $\pm$ 5 % F.S. ( within rated pressure range ) Linearity : $\pm$ 1 % F.S.	Output voltage : 1 to 5 V $\pm$ 2.5 % F.S. ( within rated pressure range ) Linearity : $\pm$ 1 % F.S.	
<b>Environment</b>	<b>Enclosure</b>	IP 40		
	<b>Ambient Temp. Range</b>	Operation : 0 ~ 50 °C, storage : -20 ~ 60 °C ( No condensation or freezing )		
	<b>Ambient Humidity Range</b>	Operation/Storage : 35 ~ 85 % RH ( No condensation )		
	<b>Withstand Voltage</b>	1000 V AC in 1-min ( between case and lead wire )		
	<b>Insulation Resistance</b>	50 M $\Omega$ ( at 500 V DC, between case and lead wire )		
	<b>Vibration</b>	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		
	<b>Shock</b>	980 m/s <sup>2</sup> ( 100 G ), 3 times each in direction of X, Y and Z		
<b>Temperature Characteristic</b>		$\pm$ 2 % F.S. of detected pressure ( 25 °C ) at temp. Range of 0 ~ 50 °C		
<b>Port Size</b>		F1 : R1/8", M5 ; F2 : NPT1/8", M5 ; F3 : G1/8" ( BSPP ), M5		
<b>Lead Wire</b>		Oil-resistance cable ( 0.15 mm <sup>2</sup> )		
<b>Weight</b>		Approx. 67 g ( with 2 meter lead wire )		

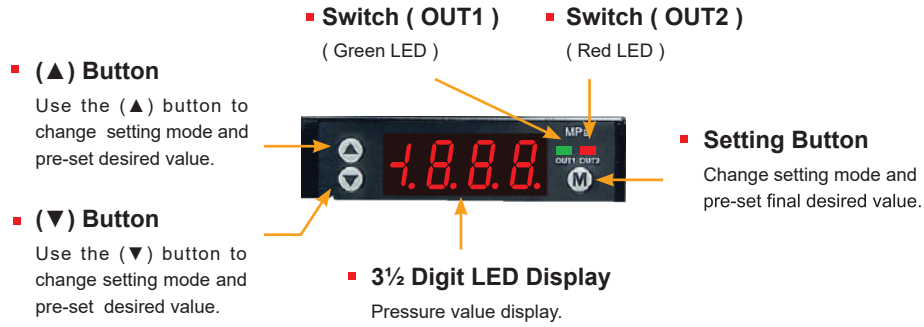
**Kurulum Önlemleri / Installation Precautions**

- 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.



**WINMAN P-30 Serisi İnce Basınç Sensörü / P-30 Series Thin Pressure Sensor**

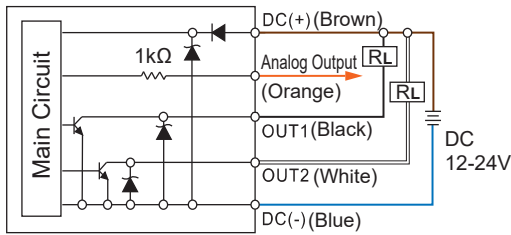
Panel Tanımı / Panel Description



Devre Bağlantı Şemaları / Circuit Wiring Diagrams

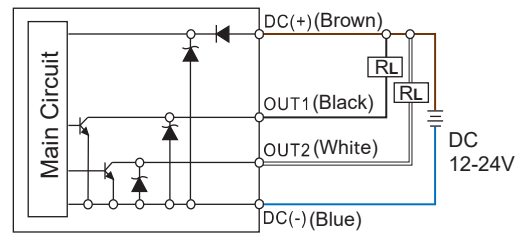
**P30 □ - 01 - □ - □**

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



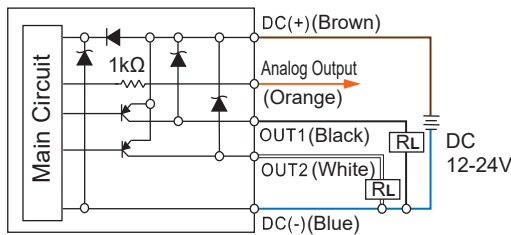
**P30 □ - 02 - □ - □**

**NPN Output**



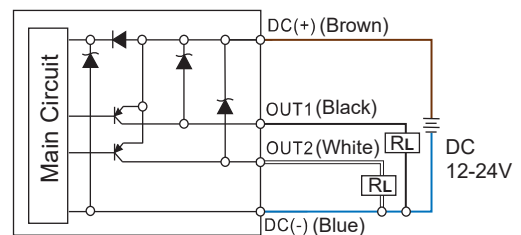
**P30 □ - 03 - □ - □**

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



**P30 □ - 04 - □ - □**

**PNP Output**



Sipariş Bilgileri / Ordering Information

**P 3 0 C - 0 1 - F 1 - □**

**Pressure Range**

- C : Compound ( -100.0 ~ 100.0 kPa )
- V : Vacuum ( 10.0 ~ -101.3 kPa )
- P : Positive ( -0.100 ~ 1.000 MPa )

**Pressure Port**

- F1 : R1/8", M5
- F2 : NPT1/8", M5
- F3 : G1/8" ( BSPP ), M5

**Output Specification**

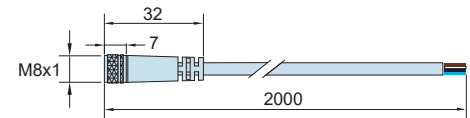
- 01 : 2 NPN output & Analog output ( 1 ~ 5 V )
- 02 : 2 NPN output
- 03 : 2 PNP output & Analog output ( 1 ~ 5 V )
- 04 : 2 PNP output

**Cable Length / Connector**

- Blank : With 2 meter cable
- QD : With M8 4Pin male connector
- \* ( Only type P30 □ - 02 - □ , P30 □ - 04 - □ )

**Optional Part**

M84R - W0085 - 2M : M8 4Pin female connector

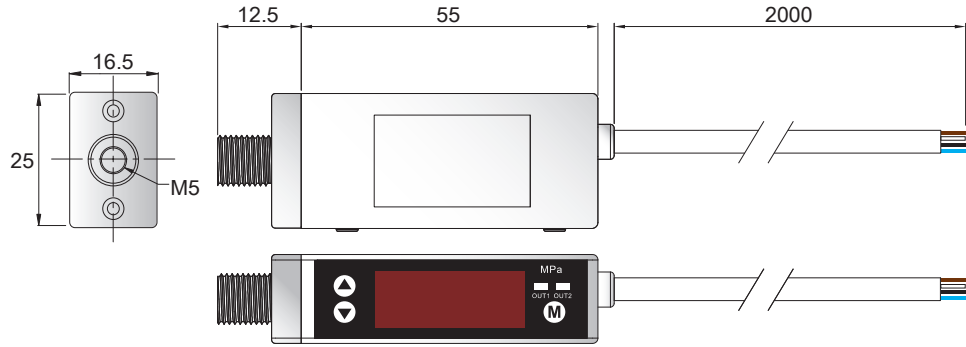


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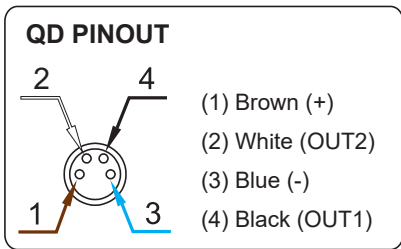
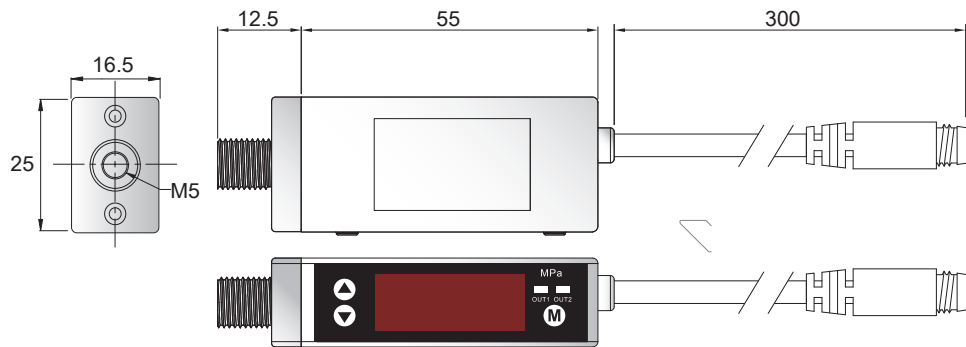
**WINMAN P-30 Serisi İnce Basınç Sensörü / P-30 Series Thin Pressure Sensor**

**Boyutlar / Dimensions**

**P30** □ - □ - □



**P30** □ - □ - □ - QD



Unit : mm