

Features

- ☆3 Colors Display,3 Display Section.
- ☆Unit Setting Available.
- ☆When setting the pressure unit,
it will display on the units–display section.
- ☆The parameter of setting pressure can display
on the sub–display section.
- ☆Key Lock Indicator.
- ☆RoHs Directive Compliant.



Technical Parameters

Model		RL5C (Compound)	RL5V (Vacuum)	RL5P (Positive)
Rated pressure range		−100.0~100.0 kPa	0.0~−101.3 kPa	0.000~1.000 MPa
Setting pressure range		−101.0~101.0kPa	10.0~−101.3kPa	−0.100~1.000 MPa
Withstand pressure		300 kPa		1.5MPa
Fluid		Air,Non−corrosive gases, incombustible gases		
Set pressure resolution	kPa	0.1		−
	MPa	−		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.01		0.1
	InHg	0.1		−
	mmHg	1		−
Power supply voltage		12~24VDC ± 10%Ripple (P−P) 10% or less		
Current consumption		≤40mA(With no load)		
Switch output		2 NPN open collector Max.load current:125mA Max.supply voltage:30VDC Residual voltage:≤1.5V (load current 125mA)	2 PNP open collector Max.load current:125mA Max.supply voltage:24VDC Residual voltage:≤1.5V (load current 125mA)	
Repeatability(Switch output)		± 0.2% F.S. ± 1digit		
Hysteresis	Hysteresis mode	Adjustable		
	Window comparator mode			
Response time		≤2.5ms(chattering−proof function; 25ms, 100ms, 250ms, 500ms, 1000ms and 1500ms selections		
Output short circuit protection		Yes		
7 segment LCD display		Three colors (Red/Green/Orange)main&unit display,orange sub−display (Sampling rate:5times/1sec.)		
Indicator accuracy		≤ ± 2% F.S. ± 1digit(ambient temperature: 25 ± 3°C)		
Switch ON Indicator		Orange 1 & 2 Indicator		
Analog output(Voltage Output)(*1)		Output Voltage: 1~5V≤ ± 2.5%F.S(within rated pressure range) Linearity: ≤ ± 1% F.S. Output impedance:about 1kΩ		
Analog output(Current Output)(*2)		Output Current: 4~20mA≤ ± 2.5% F.S.(within rated pressure range) Linearity: ≤ ± 1% F.S. Max.Load Impedance: 300Ω at power supply of 12V 600Ω at power supply of 24V Min.Load impedance: 50Ω		
Environment	Enclosure	IP40		
	Ambient temp.range	Operation; 0~50°C, Storage; −10~60°C(No condensation or freezing)		
	Ambient humidity range	Operation/Storage: 35~85% RH(No condensation)		
	Withstand voltage	1000VAC in 1−min(between case and lead wire)		
	Insulation resistance	50Mohm min.(at 500VDC,between case and lead wire)		
	Vibration	Total amplitude1.5mm, 10Hz~55Hz~10Hz scan for 1 minute, two hours each direction of X,Y and Z		
	Shock	100m/s ² (10G) 3 times each in direction of X,Y and Z		
Temperature characteristic		≤ ± 2% F.S.of detected pressure(25°C) at temp.Range of 0~50°C		
Port size		F1: 1/8" PT, M5; F2: 1/8" NPT, 10−32UNF; F3: G1/8", M5		
Lead wire		Oil−resistance cable(0.15mm ²)		
Weight		Approx*80g(with 2−meter lead wire),Approx*45g(with male connector)		

*1:If analog voltage output is selected,the analog current output cannot be selected at the same time.

*2:If analog current output is selected,the analog voltage output cannot be selected at the same time.

How to Order

RL5C - 02 - F1 - - J

① ② ③ ④ ⑤

① Pressure Range

C	Compound(-101~101kPa)
V	Vacuum(0~-101.3kPa)
P	Positive(-0.100~1.000MPa)

② Output Specifications

010	1NPN Output & 1Analog Output(1~5V)
011	1NPN Output&1Analog Output(4~20mA)
02	2NPN Output
030	1PNP Output&1Analog Output(1~5V)
031	1PNP Output&1Analog Output(4~20mA)
04	2PNP Output

③ Pressure port

F1	1/8"PT,M5
F2	1/8"NPT,10-32 UNF
F3	G1/8",M5

④ Cable Length/Connector

Blank	With 2 meter cable
QD	With M8,4 Pin male connector

⑤ Pressure Unit

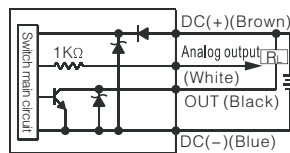
Blank	Unit changeable
J	Unit unchangeable(Fixed unit is Kpa)

Option part

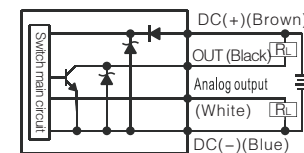
M84R-W0085-2M: M8,4 Pin female connector
 RL5-A: Mounting bracket(BT-3+BT-4)
 RL5-B: Panel adapter(PA-3+PA-4)
 RL5-C: Panel adapter+Front protective lid
 (PA-3+PA-4+FPC-2)

Output circuit wiring diagrams

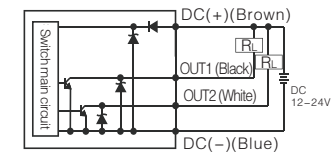
RL5□-010-□-□
NPN+Analog(Voltage)output



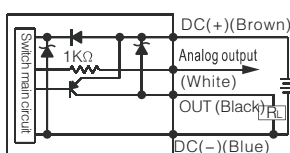
RL5□-011-□-□
NPN+Analog(Current)output



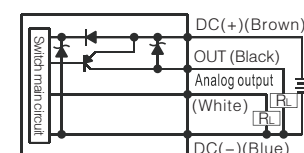
RL5□-02-□-□
NPN output



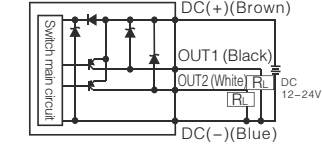
RL5□-030-□-□
NPN+Analog(Voltage)output



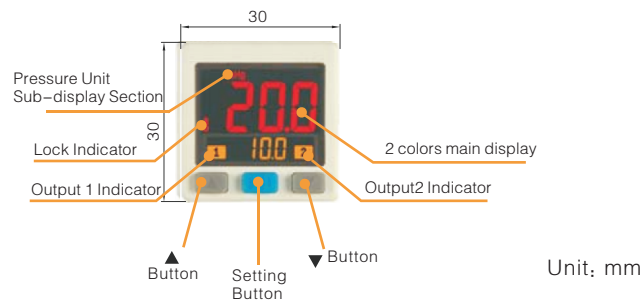
RL5□-031-□-□
PNP+Analog(Current)output



RL5□-04-□-□
PNP output



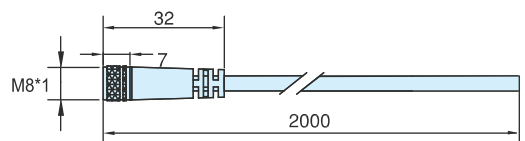
Panel instructions



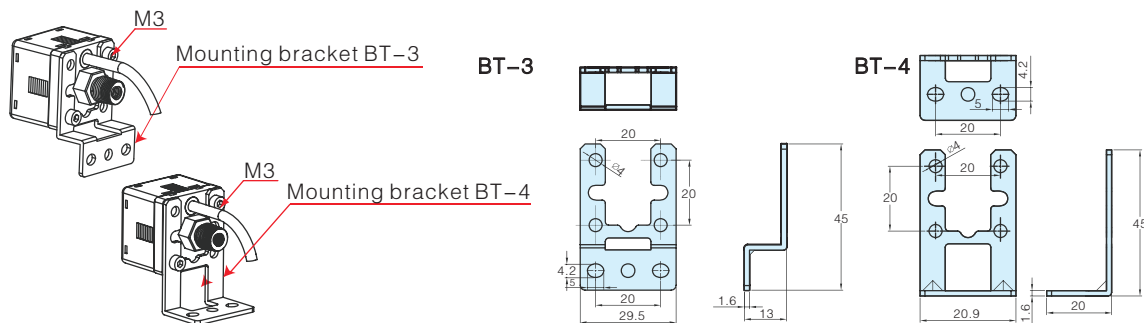
Optional spare parts dimensions

1.M8 Female Connector

Model: M84R-W0085-2M



2. Mounting Bracket



3. Panel mount adapter

