Air connector addition

Specifications

Num	ber of ports (Size)	2 (Rc1/8)
Wo	orking pressure	-0.09 \sim 1 MPa
Mass	Master plate side	48g*1 / 63g*2
IVIdSS	Tool plate side	42g*1 / 36g*2

*1:RHA/RHB010

*2:RHA/RHB020~230 Connector E0 is mountable.



RHA020/040/080/160/230 **RHB020**



















Sensor for connecting/disconnecting Detects lock/unlock

Specifications

Symbol	SN	SP			
Power-supply voltage	DC 5 ^	~ 24V			
Output specifications	NPN	PNP			
Output current	MAX. 15 mA	MAX. 80 mA			
Current consumption	MAX. 4 mA	MAX. 12 mA			
Cable	Lock:Black Length 1 m				
Canie	Unlock:Gray Length 1 m				





Sensor signal

Status	Unlock	Lock	Full stroke
Lock sensor	OFF	ON	ON
Unlock sensor	ON	ON	OFF

Symbol:SN(NPN)



Symbol:SP(PNP)



Electric connector 3A×10 points (with cable)

Specifications						
Rating (per 1 pie	ece)	3A DC 24V				
Number of cont	act points	10				
Total volume		9A				
Mass	Master plate	145g*1 / 135g*2 / 150g*3				
IVIdSS	Tool plate	145g*1 / 135g*2 / 150g*3				

*1: RHA005. Including bracket and cable.

*2:RHA010. Including cable.

*3:RHA020~230. Including bracket and cable.





*: Cable bending radius Fixed wiring: 4 times of cable diameter. Movable part wiring: 8 times of cable diameter.

Circular electric connector 5A×14 points

Specifications

Rating (per 1 pie	ece)	5A AC/DC 200V
Number of cont	act points	14
Total volume		30 A
Manast	Master plate	245 g
Mass*	Tool plate	230 g

*:Including bracket.

Connect/Disconnect operations must be performed with the power shut-off. Failure to follow this instruction may cause the malfunction.





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Circular electric connector 13A×10 points

Specifications

Rating (per 1 pie	ece)	13A AC/DC 200V
Number of cont	act points	10
Total volume		57 A
Manast	Master plate	255 g
Mass*	Tool plate	240 g

*:Including bracket.

Connect/Disconnect operations must be performed with the power shut-off. Failure to follow this instruction may cause the malfunction.











Remote sensor 12 points (with cable)

Specifications*1

Tool plate side		Master plate side				
Symbol	R	Symbol		RN	RP	
Drive voltage	12V±1.5V DC	Output specific	ations	NPN	PNP	
		Supply volta	Supply voltage 24V DC±10% (Including ripple			
Total drive current	\leq 230mA	Current consum	nption	≦ 600mA		
		No. of output si	gnals	12 + 1 (Inzone)	
No. of input signals	12	Load current	t	≦ 50mA/1 Output		
Mass* ²	230 g	Mass* ²		340 g		

*1:Refer to the web site of the company named B & Plus for details about the remote sensor.*2:Includes bracket and cable.

Applicable sensor

Supply voltage:12V±1.5V DC | Total current consumption:≦230mA | Residual voltage:≦3.5V



Wiring color

RS12T-422-PU-				RS12E-422N/P-PU-			
+12 V output	WH			+24 V input	WH		
0 V output	Pale BU			0 V input	Pale BU		
Polarity switching POL	BK			In zone	BK		
Input 1 (SI1)	BN	Input 7 (SI7)	VT	Output 1 (SO1)	BN	Output 7 (SO7)	VT
Input 2 (SI2)	RD	Input 8 (SI8)	GY	Output 2 (SO2)	RD	Output 8 (SO8)	GY
Input 3 (SI3)	OG	Input 9 (SI9)	BN*	Output 3 (SO3)	OG	Output 9 (SO9)	BN*
Input 4 (SI4)	YE	Input 10 (SI10)	RD*	Output 4 (SO4)	YE	Output 10 (SO10)	RD*
Input 5 (SI5)	GN	Input 11 (SI11)	OG*	Output 5 (SO5)	GN	Output 11 (SO11)	OG*
Input 6 (SI5)	BU	Input 12 (SI12)	YE*	Output 6 (SO5)	BU	Output 12 (SO12)	YE*

Polarity switching POL is wiring for switching the polarity (NPN / PNP) of the sensor connected to the transmission section. Check the wiring diagram and wire according to the sensor to be connected. If it is not wired, no signal will be detected.

At the time of shipment from the factory, the unused core wire of the cable is cut. If the cable is shortened due to wiring reasons, the unused core wire will be exposed, so be careful not to short-circuit it.

The unused lines are GN *, BU *, and VT *.(* is the line with ■■ printed on the core wire of each color)

Wiring diagram 3-wire NPN type detection sensor connection



3-wire PNP type detection sensor connection (POL (+) Detection sensor (PNP) RS12T

(Output) (SI)



2-wire NPN type detection sensor connection





When wiring the power supply and signal lines, carefully check the wiring diagram and wire correctly. When connecting a DC 2-wire sensor, wire a resistor of about 1 to $2 \text{ K}\Omega$.

LED indication

Status LED (Green)

LED	Blinking	Pattern	Meaning				
On 🔘	_	-	Power is supplied.		LED light	ON	
Off 🔵	_	_	Power is not supplied.		on for a long time	OFF -	
Blink-ऴ-	Slow (1.5 sec.)	LED light off for a long time	Anomalous temperature.		iong time	OIT	
Blink-ऴ-	SIOW (1.5 Sec.)	LED light on for a long time	Oscillation circuit overcurrent.		LED light		
Blink-¤-	Mid speed	LED light off for a long time	Supply voltage is high.		off for a	ON -	
Blink-¤-	(0.6 sec.)	LED light on for a long time	Supply voltage is low.	J	long time	OFF -	
Blink•¤́-	High (0.2 sec.)	The LED flashes at the same interval	Short circuit protection.		l		 → →

Inzone LED (Orange)

When the master plate and tool plate are on opposing sides, the inzone LED is lit to signal this. When the output signal from each sensor and flash accordingly.





Remote sensor 4 points (with cable)

Specifications*1

Tool plate side			Master plate side				
Symbol	R		Symbol	RN	RP		
Drive voltage	12V±1.5V DC		Output specifications	NPN	PNP		
			Supply voltage 24V DC±10% (Including ripple)				
Total drive current	\leq 60mA		Current consumption	≦ 200mA			
			No. of output signals	4 + 1 (l	nzone)		
No. of input signals	4		Load current	\leq 50mA	'1 Output		
Mass* ²	120 g		Mass* ²	180 g			



*1:Refer to the web site of the company named B & Plus for details about the remote sensor.*2:Includes bracket and cable.

Applicable sensor

Supply voltage:12V±1.5V DC | Total current consumption:≦60mA | Residual voltage:≦ 3.5V |



Wire color

RS04T-F1-PU-						
+12 V output	White					
0 V output	Blue					
Polarity switching POL	Black					
Input 1 (SI1)	Brown					
Input 2 (SI2)	Red					
Input 3 (SI3)	Yellow					
Input 4 (SI4)	Green					

RS04E-F1N/P-PU-						
+24 V input	White					
0 V input	Blue					
In zone	Black					
Output 1 (SO1)	Brown					
Output 2 (SO2)	Red					
Output 3 (SO3)	Yellow					
Output 4 (SO4)	Green					

Polarity switching POL is wiring for switching the polarity (NPN / PNP) of the sensor connected to the transmission section. Check the wiring diagram and wire according to the sensor to be connected. If it is not wired, no signal will be detected.

Detection sensor (PNP)

Wiring diagram 3-wire NPN type detection sensor connection



2-wire NPN type detection sensor connection





(Output) (SI)

3-wire PNP type detection sensor connection

(POL) (+)

RS04T

Connection to external PLC



When wiring the power supply and signal lines, carefully check the wiring diagram and wire correctly. When connecting a DC 2-wire sensor, wire a resistor of about 1 to $2 \text{ K}\Omega$.

LED indication

Status LED (Green)

LED	Blinking	Pattern	Meaning		Lighting	ON	ł
On 🔘	_	_	Power is supplied.		time of the LED	ON	↓
Off	_	_	Power is not supplied.)	is long	OFF	-
Blink-¤-	Slow (1.5 sec.)	LED light off for a long time	Anomalous temperature.		OFF time of the LED is long	ON	
Blink-¤-	ivita specea	LED light off for a long time	Supply voltage is high.	}			
Blink-¤-		LED light on for a long time	Supply voltage is low.			OFF	_
Blink-¤-	High (0.2 sec.)	The LED flashes at the same interval	Short circuit protection.	(



Inzone LED (Orange)

When the master plate and tool plate are on opposing sides, the inzone LED is lit to signal this.