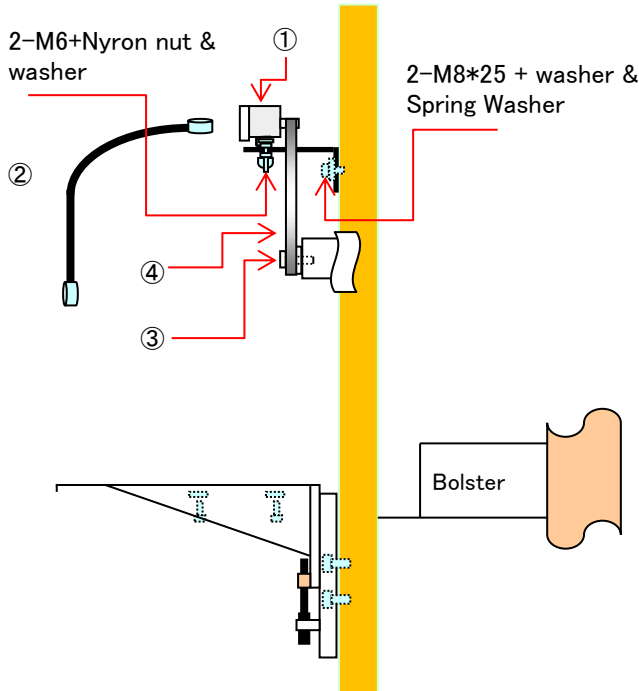


**Installation manual**

**Accessories**



**Standard components**

Product name	Quantity, specifications
Power and signal cable	1-8M
Spare fuse	2-5A
Terminal set	1
Main unit securing bolt/washer	4-M8*25
① Press rotation sensor	1
② Rotation sensor cable	1-6M
③ Pulley for press	1-M19XL037
Instruction manual	1

**Option**

Product name	Quantity, specifications
④ Timing belt	1-N(L)XL037
Bracket for installing main unit	1

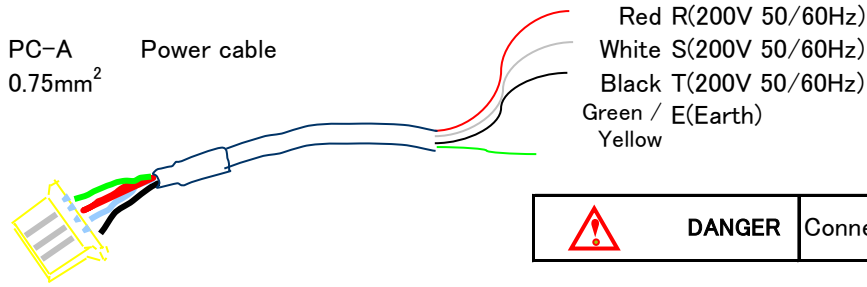
**Accessories**

Bracket securing bolt	4-M14*30
Pass line adjusting bolt	1-M12*150
Pass line sticker	1 - scale in increments of 60 mm/1 mm
Anaerobic adhesive	1

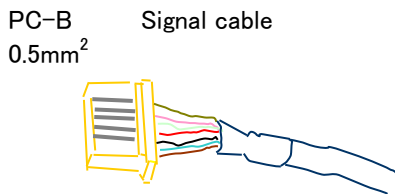
**Required for installing a press**

Press		Specifications Interlock	
Power supply voltage		3Phase 200V(±10%),50/60Hz	
Emergency stop switch input 2-systems support		Emergency stop signal output This signal outputs directly from the emergency stop switch. 1 A at 250 VAC or less 1 A at 30 VDC or less	
Abnormal stop circuit		Stop signal output 1 A at 250 VAC or less    Open at output 1 A at 30 VDC or less	
Continuous operation stop input		Continuous stop signal output 1 A at 250 VAC or less    Open at output 1 A at 30 VDC or less	
Emergency stop output	Open collector output or Contact output	Emergency stop input circuit 0.01A at 24VDC	
Sync. Signal(Cam) output	Open collector output or Contact output	Feeder synchronization signal input circuit Feed/Release	
Press continuous operation output	Open collector output or Contact output	Press process input circuit	

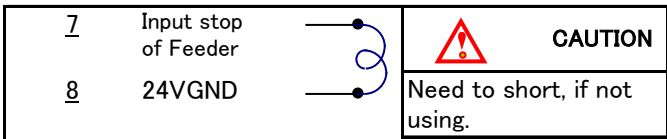
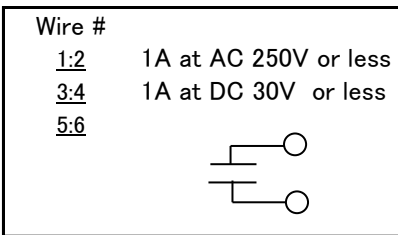
Press	Option
Work shortage stop circuit or Top dead center stop circuit	Continuous stop signal output 1 A at 250 VAC or less    Open at output 1 A at 30 VDC or less



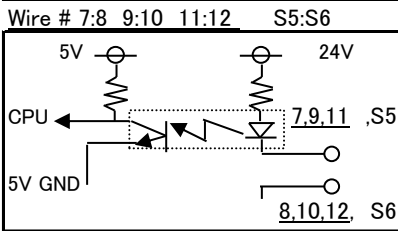
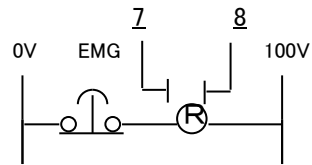
**⚠ DANGER** Connect to the primary side



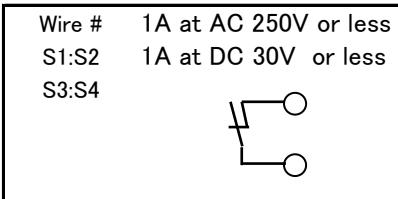
- 1 Drive stop signal output } To the stop continuous on the press circuit
- 2
- Option
- 3 Work shortage sensor } To the stop continuous on the press circuit
- 4 output }
- 5 Continuous stop signal } To the stop continuous on the press circuit
- 6 output }



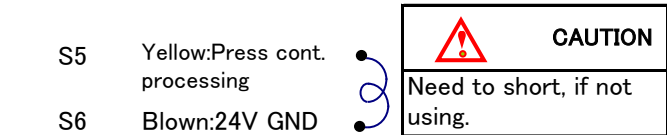
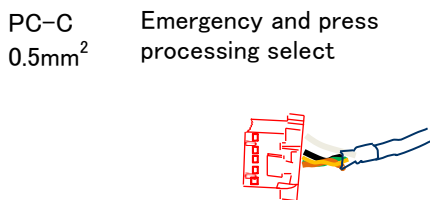
Example for circuit



- Option
- 9 (Feed) Press cam signal
  - 10 24V GND
  - 11 (Release) Press cam signal
  - 12 24V GND



- S1 White: Emergency stop } To Emergency stop circuit
- S2 Black: Emergency stop }
- S3 Red: Emergency stop } To Emergency stop circuit
- S4 Green: Emergency stop }



**i**

Need to short the circuit of press processing select(S5, S6), if you don't use the circuit.

**⚠ DANGER**

To cover each cable which is not using connection.

**⚠ NOTE**

The timing belt disconnection detection of the rotation sensor is provided for feed (9,10) and release (11,12). If one of them is connected, its function is valid.

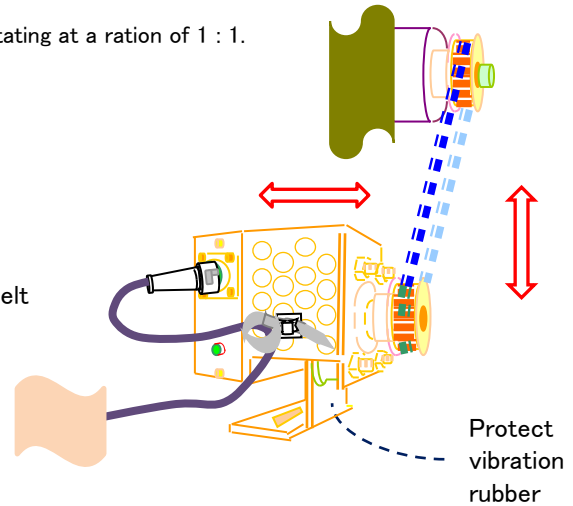
## Rotation sensor installation

Install the pulley for the feeder to the press on the axis rotating at a ration of 1 : 1.

For the pulleys connected with the timing belt, make a parallelism adjustment so that no offset would occur.

Note that the timing belt tension is approximately 24.5N(2.5kgf).

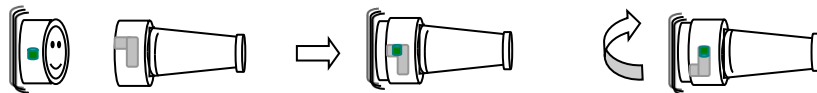
Make sure to confirm the straightness of the timing belt toward the basic point.



	<b>WARNING</b>
Please secure the sensor-cable near the plug in order to protect the disconnection.	
Example: Onto the body of the sensor.	

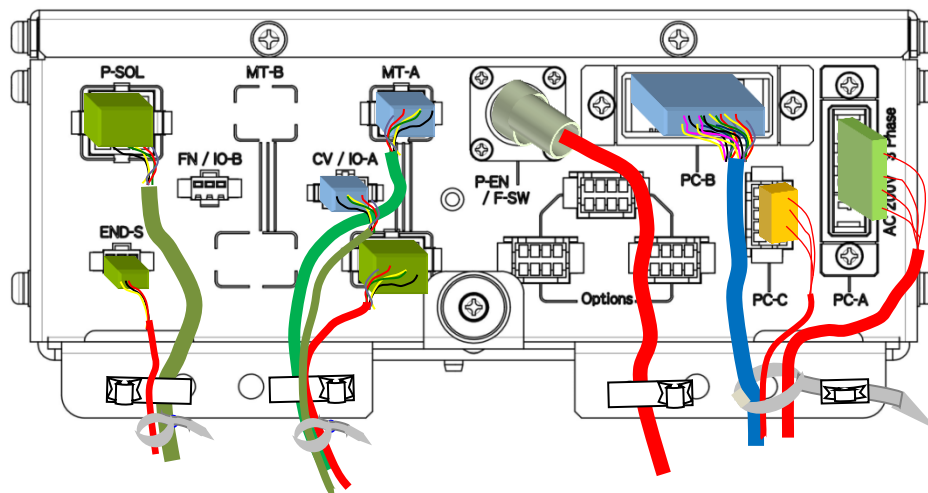
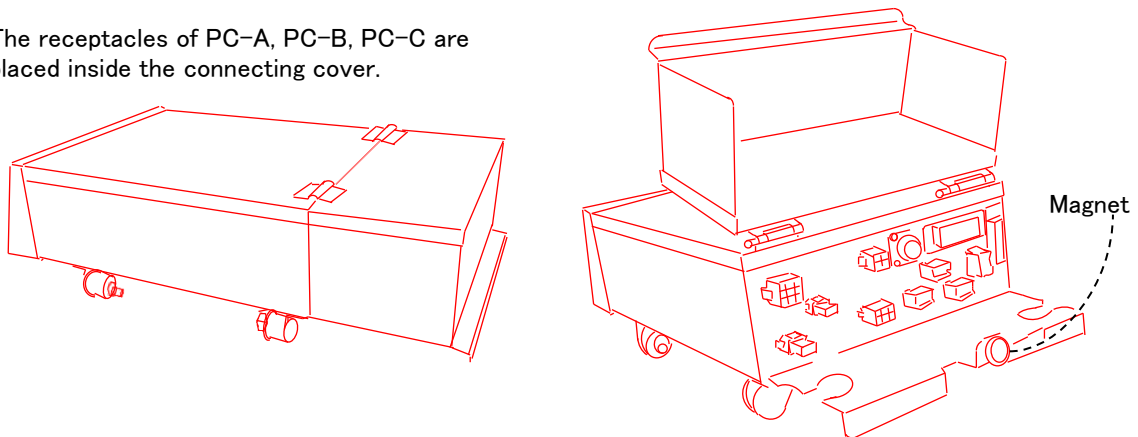
## Connecting of the metal plug (Bayonet system)

The plug is put according to the pin of the receptacle, and you make the sleeve revolve and lock it.



## Cable connecting

The receptacles of PC-A, PC-B, PC-C are placed inside the connecting cover.




	<b>DANGER</b>	Need to fix three external cables in prepared nylon band.
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Method of input the press angles

Call code **2 10**, by using initial setting.

Set the direction of the rotation sensor. Next, call code **2 11** and set the press angles.

 The controller panel is supposed to display **E. 10 -3** when turn on the power without inputting the press angles.

Procedure	Switch	Contents
①	<b>Power</b>	Turn off "Power" switch
②	<b>Emergency stop</b>	Turn on "Emergency stop" switch
③-1	<b>Reset</b>	Push on "Reset" switch, Keep it
③-2	<b>Power</b>	Turn on "Power" switch, after that release "Reset" switch
④	← →	Set to <b>2 10</b>
⑤	+/-	Set to the direction of the rotation sensor Counterclockwise: <b>C.C.</b> Clockwise <b>C.</b>
⑥	← →	Set to <b>2 11</b> .
⑦	+/-	Input the press angle
⑧	After input <b>Set ⇄ Run</b>	Push on "Set ⇄ Run" switch
⑨	<b>Power</b>	Turn off
⑩	<b>Emergency stop</b>	Turn off "Emergency stop"
Finish		

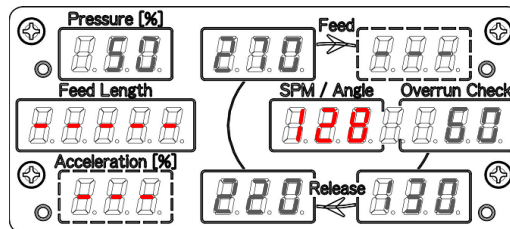
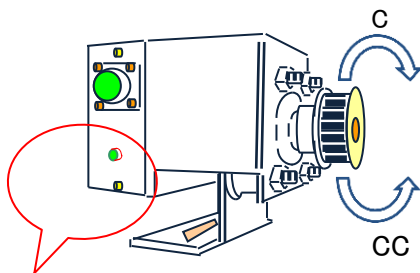
 After ③-2, you can turn off "Emergency stop" switch.

Direction of rotation sensor for a press

If the direction of the rotation sensor is against, the controller will blink "SPM / Angle" in high-light, and display the minus on the display "Feed Length" and "Acceleration [%]".

Need to set from the start.

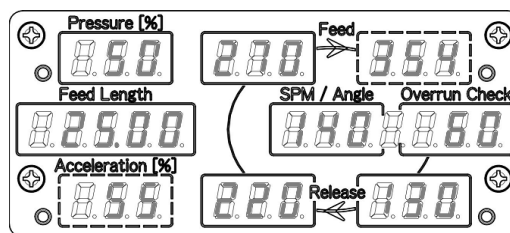
Not suitable




Status lamp

Indication	Status
Off	Offline
Lit	Online
High speed Blinking	In Active
Low speed Blinking	Error

Suitable



 There may be a couple of difference angle between the display angle of the feeder and the angle display of the press or other equipment due to the resolution different of the each equipment.