



Installation & Maintenance Manual
Magnetic Field Resistant 2-colour
Indication Type Solid State Auto Switch
Series D-P3DW(A)*



Safety Instructions

This manual contains essential information for the protection of users and others from possible injury and/or equipment damage.

- Read this manual before using the product, to ensure correct handling, and read the manuals of related apparatus before use.
- Keep this manual in a safe place for future reference.
- These instructions indicate the level of potential hazard by label of "Caution", "Warning" or "Danger", followed by important safety information which must be carefully followed.
- To ensure safety of personnel and equipment the safety instructions in this manual and the product catalogue must be observed, along with other relevant safety practices.

Caution	CAUTION indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
Warning	WARNING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
Danger	DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning

- Do not disassemble, modify (including changing the printed circuit board) or repair.
An injury or failure can result.
- Do not operate the product outside of the specifications.
Do not use for flammable or harmful fluids.
Fire, malfunction, or damage to the product can result.
Verify the specifications before use.
- Do not operate in an atmosphere containing flammable or explosive gases.
Fire or an explosion can result.
This product is not designed to be explosion proof.
- If using the product in an interlocking circuit:
 - Provide a double interlocking system, for example a mechanical system.
 - Check the product regularly for proper operation.
Otherwise malfunction can result, causing an accident.
- The following instructions must be followed during maintenance:
 - Turn off the power supply.
 - Stop the air supply, exhaust the residual pressure and verify that the air is released before performing maintenance.
Otherwise an injury can be result.

Caution

- Do not touch terminals and printed circuit board inside the product.
Otherwise electric shock, malfunction or damage to the product can result.
- After maintenance is complete, perform appropriate functional inspections.
Stop operation if the equipment does not function properly.
Safety cannot be assured in the case of unexpected malfunction.

Model Indication and how to order

D-P3DW(A) □

Series

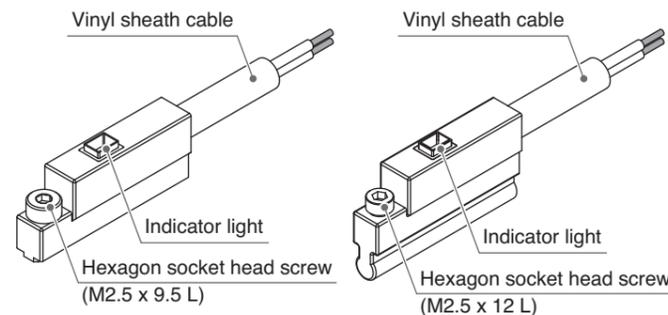
Lead wire length

Symbol	Specification
Nil	500 mm
L	3000 mm
Z	5000 mm
SC	300 mm (M12 4 pin pre-wired: pins 3-4)
SE	300 mm (M12 4 pin pre-wired: pins 1-4)

Names and Functions of Individual Parts

D-P3DW

D-P3DWA



Installation

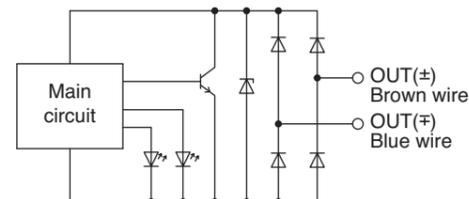
When mounting the Auto switch to the actuator, the appropriate mounting bracket should be used.
 "How to mount" depends on the actuator type and bore size.
 Please refer to the actuator catalogue.
 For new Auto switch applications, confirm that the actuator includes a magnet before assembling the Auto switch and bracket.

- Tightening torque
The tightening torque for a hexagon socket head cap screw (M2.5 x 9 L/ M2.5 x 12 L) is 0.2 to 0.3 Nm.
- Setting the detection position
Position the actuator at the end of the stroke.
Set the Auto switch in the position where the Auto switch Red light is ON.

(Detecting actuator end)
 Based on A and B dimensions in the actuator catalogue, set the Auto switch position.
 During installation, perform adjustment while checking the operating conditions of the Auto switch.
 Air grippers and rotary actuators have their own setting method.
 Follow the instructions in the relevant manual.

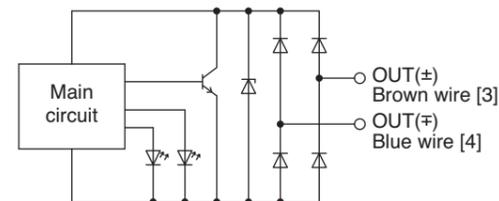
Internal circuit

D-P3DW(A) □

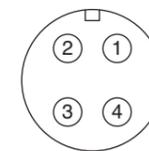


Installation (continued)

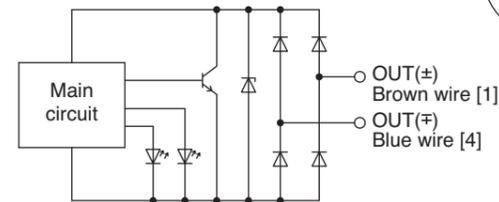
D-P3DW(A)SC



Connector pin assignment



D-P3DW(A)SE



Maintenance

After the power has been disconnected, please observe the following precautions:-
 Regarding the actuator operation set up, the contents of the program may be maintained by the customer's application system.
 Take care to confirm safety when the power is re-connected, and the actuator operation is resumed, because the operation may have stopped in an unstable condition.

Troubleshooting

Refer to the operation manual for this product.

Specifications

Refer to the operation manual for this product.

Outline with Dimensions (in mm)

Refer to the operation manual for this product.

Contact

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