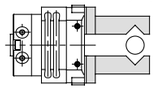
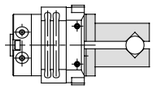
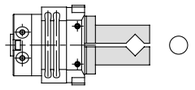
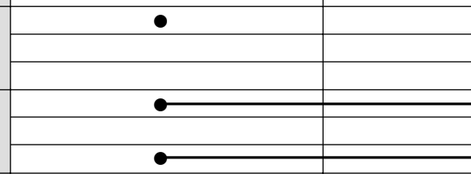
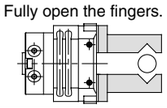
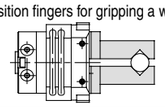
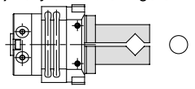
Series MDHR2/MDHR3
Auto Switch Installation Example and Mounting Position

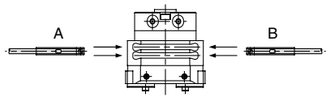
Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

1) Detection when Gripping Exterior of Workpiece/Auto Switch Mounted from Direction A

Detection example	1. Confirmation of fingers in reset position	2. Confirmation of workpiece held	3. Confirmation of workpiece released
Position to be detected	Position of fingers fully opened 	Position when gripping a workpiece 	Position of fingers fully closed 
Operation of auto switch	Switch turned ON when fingers return. (Light ON)	Switch turned ON when gripping a workpiece. (Light ON)	When a workpiece is held (Normal operation): Switch to turn OFF (Light not illuminating) When a workpiece is not held (Abnormal operation): Switch to turn ON (Light illuminating)
Detection combinations — **One auto switch**			
Detection combinations — **Two auto switches**			
How to determine auto switch installation position	**Step 1)** Fully open the fingers. 	**Step 1)** Position fingers for gripping a workpiece. 	**Step 1)** Fully close the fingers. 

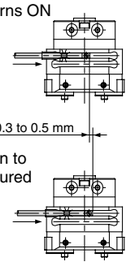
At no pressure or low pressure, connect the switch to a power supply, and follow the directions.

In the case of mounting switch from A direction
Step 2) Insert the auto switch into the switch installation groove from direction A.

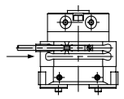


Step 3) Slide the auto switch in the direction of the arrow until the light illuminates and fasten it at a position 0.3 to 0.5 mm in the direction of the arrow beyond the position where the indicator light illuminates.

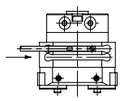
Position where light turns ON



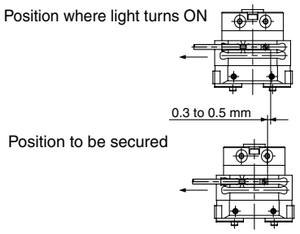
Step 3) Slide the auto switch in the direction of the arrow until the indicator light illuminates.



Step 4) Slide the auto switch in the direction of the arrow until the indicator light goes out.

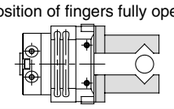
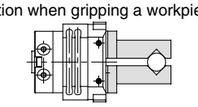
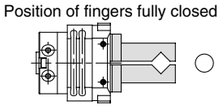
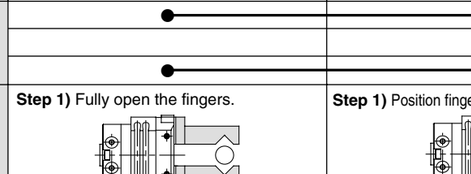
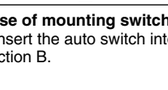
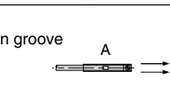


Step 5) Move the auto switch in the opposite direction, and fasten it at a position 0.3 to 0.5 mm in the direction of the arrow beyond the position where the indicator light illuminates.



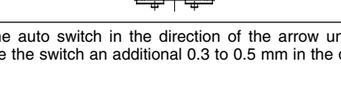
Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.
Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.

2) Detection when Gripping Exterior of Workpiece/Auto Switch Mounted from Direction B

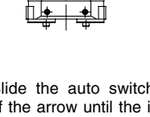
Detection example	1. Confirmation of fingers in reset position	2. Confirmation of workpiece held	3. Confirmation of workpiece released
Position to be detected	Position of fingers fully opened 	Position when gripping a workpiece 	Position of fingers fully closed 
Operation of auto switch	Switch turned ON when fingers return. (Light ON)	Switch turned ON when gripping a workpiece. (Light ON)	When a workpiece is held (Normal operation): Switch to turn OFF (Light not illuminating) When a workpiece is not held (Abnormal operation): Switch to turn ON (Light illuminating)
Detection combinations — **One auto switch**			
Detection combinations — **Two auto switches**			
How to determine auto switch installation position	**Step 1)** Fully open the fingers. 	**Step 1)** Position fingers for gripping a workpiece. 	**Step 1)** Fully close the fingers. 

At no pressure or low pressure, connect the switch to a power supply, and follow the directions.

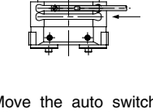
In the case of mounting switch from B direction
Step 2) Insert the auto switch into the switch installation groove from direction B.



Step 3) Slide the auto switch in the direction of the arrow until the indicator light illuminates.

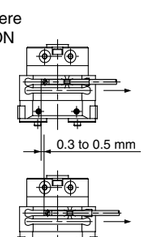


Step 4) Slide the auto switch in the direction of the arrow until the indicator light goes out



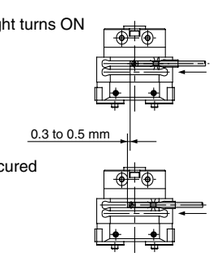
Step 5) Move the auto switch in the opposite direction and fasten it at a position 0.3 to 0.5 mm beyond the position where the indicator light illuminates.

Position where light turns ON



Step 3) Slide the auto switch in the direction of the arrow until the indicator light illuminates. Move the switch an additional 0.3 to 0.5 mm in the direction of the arrow and fasten it.

Position where light turns ON

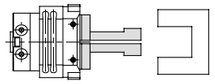
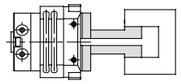
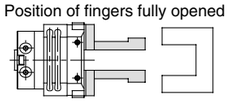
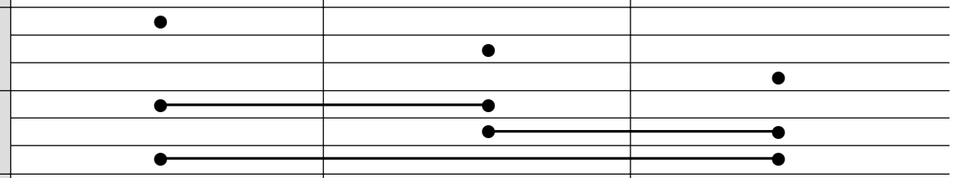
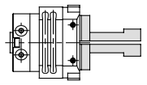
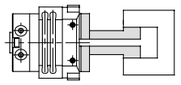
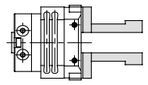
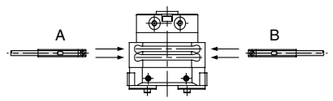
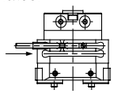
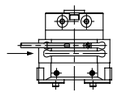
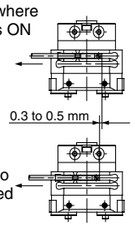
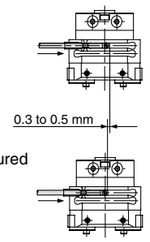


Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.
Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.

Auto Switch Installation Example and Mounting Position

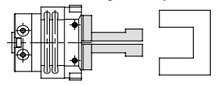
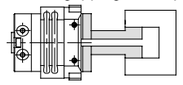
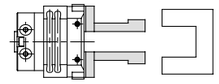
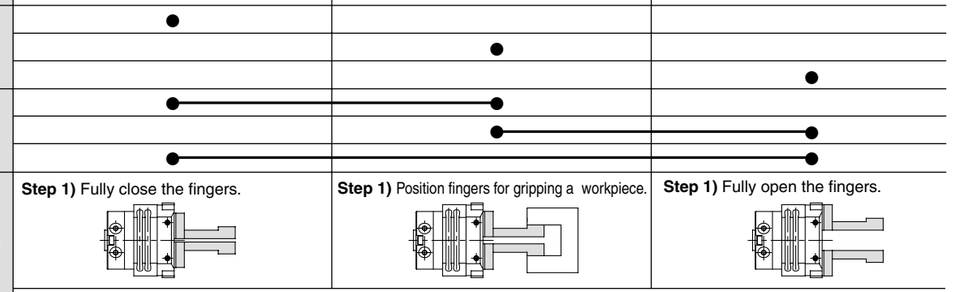
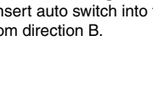
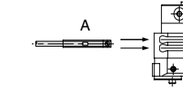
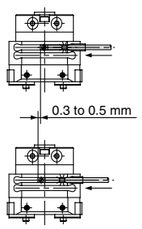
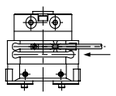
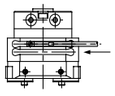
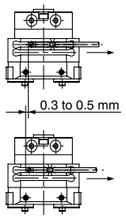
Various auto switch applications are possible through different combinations of auto switch quantities and detecting positions.

3) Detection when Gripping Interior of Workpiece/Auto Switch Mounted from Direction A

Detection example	1. Confirmation of fingers in reset position	2. Confirmation of workpiece held	3. Confirmation of workpiece released
Position to be detected	Position of fingers fully closed 	Position when gripping a workpiece 	Position of fingers fully opened 
Operation of auto switch	Switch turned ON when fingers return. (Light ON)	Switch turned ON when gripping a workpiece. (Light ON)	When a workpiece is held (Normal operation): Switch to turn OFF (Light not illuminating) When a workpiece is not held (Abnormal operation): Switch to turn ON (Light illuminating)
Detection combinations: One auto switch			
Detection combinations: Two auto switches			
How to determine auto switch installation position	**Step 1)** Fully close the fingers. 	**Step 1)** Position fingers for gripping a workpiece. 	**Step 1)** Fully open the fingers. 
At no pressure or low pressure, connect the switch to a power supply, and follow the directions.	**In the case of mounting switch from A direction** **Step 2)** Insert the auto switch into the switch installation groove from direction A. 		
	Step 3) Slide the auto switch in the direction of the arrow until the indicator light illuminates.  **Step 4)** Slide the auto switch in the direction of the arrow until the indicator light goes out.  **Step 5)** Move the auto switch in the opposite direction and fasten it at a position 0.3 to 0.5 mm beyond the position where the indicator light illuminates. Position where light turns ON 	**Step 3)** Slide the auto switch in the direction of the arrow until the indicator light illuminates. Move the switch an additional 0.3 to 0.5 mm in the direction of the arrow and fasten it. Position where light turns ON 	

Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.
Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.

4) Detection when Gripping Interior of Workpiece

Detection example	1. Confirmation of fingers in reset position	2. Confirmation of workpiece held	3. Confirmation of workpiece released
Position to be detected	Position of fingers fully closed 	Position when gripping a workpiece 	Position of fingers fully opened 
Operation of auto switch	Switch turned ON when fingers return. (Light ON)	Switch turned ON when gripping a workpiece. (Light ON)	When a workpiece is held (Normal operation): Switch to turn OFF (Light not illuminating) When a workpiece is not held (Abnormal operation): Switch to turn ON (Light illuminating)
Detection combinations: One auto switch			
Detection combinations: Two auto switches			
How to determine auto switch installation position	**Step 1)** Fully close the fingers. 	**Step 1)** Position fingers for gripping a workpiece. 	**Step 1)** Fully open the fingers.
At no pressure or low pressure, connect the switch to a power supply, and follow the directions.	**In the case of mounting switch from B direction** **Step 2)** Insert auto switch into the switch installation groove from direction B.		
	Step 3) Slide the auto switch in the direction of the arrow until the light illuminates and fasten it at a position 0.3 to.0.5 mm in the direction of the arrow beyond the position where the indicator light illuminates. Position where light turns ON 	**Step 3)** Slide the auto switch in the direction of the arrow until the indicator light illuminates.  **Step 4)** Slide the auto switch in the direction of the arrow until the indicator light goes out.  **Step 5)** Move the auto switch in the opposite direction, and fasten it at a position 0.3 to 0.5 mm in the direction of the arrow beyond the position where the indicator light illuminates. Position where light turns ON 	

Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.
Note 2) When holding a workpiece close at the end of open/close stroke of fingers, detecting performance of the combinations listed in the above table may be limited, depending on the hysteresis of an auto switch, etc.