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

ט (ו	election wi	ien Gripping Exterior of w	orkpiece/Auto Switch Moun	ited from Direction A	
Det	ection example	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	
	peration of uto 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)	
n tions	One auto switch	•	•	•	
Detection combinations	Two auto switches	•	•	•	
	v to determine auto switch llation position	Step 1) Fully open the fingers.	Step 1) Position fingers for gripping a workpiece.	Step 1) Fully close the fingers.	
press	pressure or low sure, connect the h to a power ly, and follow the tions.	In the case of mounting switch from A Step 2) Insert the auto switch into the swi groove from direction A.		B B B B B B B B B B B B B B B B B B 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.	yht on he		
		Position where light turns ON	Step 4) Slide the auto switch in the direction of the arrow until the indicator light goes of the arrow until the arro		
		Position to	Step 5) Move the auto switch in the opposite of mm in the direction of the arrow beyond the portain the direction where light turns ON O.3 to 0.5 mm Position to be secured		

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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 Series MDHR2/MDHR3

Dete	ection example	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 When a workpiece is held (Normal of Switch to turn OFF (Light not illumina When a workpiece is not held (Abnormal of Switch to turn OFF (Light not illumina When a workpiece is not held (Abnormal of Switch to turn OFF (Light not illumina When a workpiece is not held (Abnormal of Switch to turn OFF (Light not illumina workpiece is not held (Normal of Switch turned ON when gripping a workpiece is held (Normal of Switch to turn OFF (Light not illumina workpiece).	
			(1-9.11 011)	Switch to turn ON (Light illuminating)
s	One auto	•	•	
nation	switch	_		•
combinations	Two auto switches	•	•	•
		Ohan d) Falls are a the figures	0. A) D 111 (f	•
á	v to determine auto switch	Step 1) Fully open the fingers.	Step 1) Position fingers for gripping a workpiece.	Step 1) Fully close the fingers.
nsta	llation position			
At no pressure or low		In the case of mounting switch from B of Step 2) Insert the auto switch into the swit		
witch	ure, connect the n to a power y, and follow the	from direction B.	CTI Installation groove A	B
irecti				
		Step 3) Slide the auto switch in the direction of the arrow until the indicator light illuminates.		
			5	
		Ψ 1 Ψ	Position where light turns ON	
		Step 4) Slide the auto switch in the direction of the arrow until the indicator light goes out		
			O.3 to 0.5 mm Position to be secured	
		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.	- ψ	*
		Position where light turns ON		
		Position to be secured		

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.

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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.

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

Det	ection example	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 uto 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)
n Itions	One auto switch	•	•	•
Detection combinations	Two auto switches	•	•	•
	w to determine auto switch allation position	Step 1) Fully close the fingers.	Step 1) Position fingers for gripping a workpiece.	Step 1) Fully open the fingers.
press	pressure or low ure, connect the h to a power y, and follow the ions.	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.	illuminates. Move the switch an additional and fasten it.	ection of the arrow until the indicator light 0.3 to 0.5 mm in the direction of the arrow
		Step 4) Slide the auto switch in the direction of the arrow until the indicator light goes out.	Position where light turns ON O.3 to 0.5 mm	
		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 to be secured	
		Position where light turns ON 0.3 to 0.5 mm		
		Position to be secured		

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 Series MDHR2/MDHR3

Dete	ection example	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
	peration of uto 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)
ations	One auto switch	•	•	•
combinations	Two auto switches	•	•	•
	w to determine auto switch allation 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 into the switch into the switch into the switch into the switch installation groove from direction B. 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 Position to be secured Step 4) Slide the auto switch in the direction of the arrow until the in goes out. Step 5) Move the auto switch in the opposite direction, and fasten it at a to 0.5 mm in the direction of the arrow beyond the position where the influence of the arrow beyond the position of the arrow beyond the position of the arro		Step 2) Insert auto switch into the switch i	installation Φ	B
		ion of the arrow until the indicator light e direction, and fasten it at a position 0.3		
			Position where light turns ON Position to be secured	0 0.5 mm

Note 1) It is recommended that gripping of a workpiece be performed close to the center of the finger stroke.

Note 1) It is recommended that gripping of a workpiece be performed close to the center of the linger shows.

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.