

# Rotary Gripper Series *MRHQ*

## How to Order

**MRH Q 10 D - 90 S - M9NV - M9N**

**Rotary gripper**

**Gripper**

**Q** Parallel type: 2 fingers

**Gripper bore**

|    |       |
|----|-------|
| 10 | 10 mm |
| 16 | 16 mm |
| 20 | 20 mm |
| 25 | 25 mm |

**Action**

|   |                                 |
|---|---------------------------------|
| D | Double acting                   |
| S | Single acting (Normally open)   |
| C | Single acting (Normally closed) |

**Rotation angle**

|     |      |
|-----|------|
| 90  | 90°  |
| 180 | 180° |

**Single vane**

**Lead wire length**

|     |       |
|-----|-------|
| Nil | 0.5 m |
| L   | 3 m   |
| Z   | 5 m   |

**Type of auto switch for detecting rotation**

**Nil** Without auto switch (Built-in magnet)

**Number of auto switches**

|     |        |
|-----|--------|
| Nil | 2 pcs. |
| S   | 1 pc.  |

**Applicable Auto Switch**

| Type                 | Electrical entry | Indicator light | Wiring (output) | Load voltage | Auto switch symbol |         | Lead wire length* (m) |       |            | Applicable load |            | Auto switch model |
|----------------------|------------------|-----------------|-----------------|--------------|--------------------|---------|-----------------------|-------|------------|-----------------|------------|-------------------|
|                      |                  |                 |                 |              | Electrical entry   | In-line | 0.5 (Nil)             | 3 (L) | 5 (Z)      | IC circuit      | Relay PLC  |                   |
| Solid state switches | Grommet          | Yes             | 3-wire (NPN)    | 5V           | M9N                | ●       | ●                     | ○     | IC circuit | Relay PLC       | D-M9N□-746 |                   |
|                      |                  |                 | 3-wire (PNP)    | 12V          |                    | ●       | ●                     | ○     |            |                 | D-M9P□-746 |                   |
|                      |                  |                 | 2-wire          | 12V          |                    | ●       | ●                     | ○     |            |                 | D-M9B□-746 |                   |

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9N  
3 m ..... L M9NL  
5 m ..... Z M9NZ

\* Refer to page 731 for further information on auto switches.

\* Order with an auto switch part number when ordering a single auto switch unit.

\* Auto switches marked with a "○" are made upon receipt of order.

**Type of auto switch for gripper opening/closing**

**N** Without auto switch (Built-in magnet)

**Applicable Auto Switch**

| Type                 | Electrical entry | Indicator light | Wiring (output) | Load voltage | Auto switch symbol |               | Lead wire length* (m) |       |            | Applicable load |           | Auto switch model |
|----------------------|------------------|-----------------|-----------------|--------------|--------------------|---------------|-----------------------|-------|------------|-----------------|-----------|-------------------|
|                      |                  |                 |                 |              | Electrical entry   | Perpendicular | 0.5 (Nil)             | 3 (L) | 5 (Z)      | IC circuit      | Relay PLC |                   |
| Solid state switches | Grommet          | Yes             | 3-wire (NPN)    | 5V           | M9NV               | ●             | ●                     | ○     | IC circuit | Relay PLC       | D-M9NV□   |                   |
|                      |                  |                 | 3-wire (PNP)    | 12V          |                    | ●             | ●                     | ○     |            |                 | D-M9PV□   |                   |
|                      |                  |                 | 2-wire          | 12V          |                    | ●             | ●                     | ○     |            |                 | D-M9BV□   |                   |

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NV  
3 m ..... L M9NVL  
5 m ..... Z M9NVZ

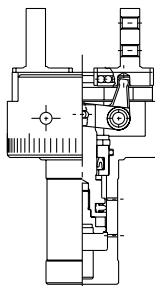
\* Refer to page 774 for further information on auto switches.

\* Please order with an auto switch part number when ordering a single auto switch unit.

\* Auto switches marked with a "○" are made upon receipt of order.

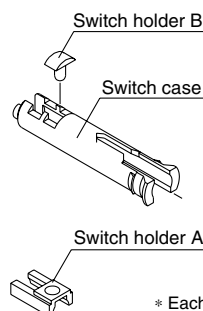
## Unit list

### Gripper unit



| Model   | Unit part no. |
|---------|---------------|
| MRHQ10D | P407090-3D    |
| MRHQ10S | P407090-3S    |
| MRHQ10C | P407090-3C    |
| MRHQ16D | P407060-3D    |
| MRHQ16S | P407060-3S    |
| MRHQ16C | P407060-3C    |
| MRHQ20D | P407080-3D    |
| MRHQ20S | P407080-3S    |
| MRHQ20C | P407080-3C    |
| MRHQ25D | P408080-3D    |
| MRHQ25S | P408080-3S    |
| MRHQ25C | P408080-3C    |

### Switch mounting unit



| Model   | Unit part no. |
|---------|---------------|
| MRHQ10□ | P407090-1     |
| MRHQ16□ | P407060-1     |
| MRHQ20□ |               |
| MRHQ25□ |               |

\* Each unit includes two of each of the parts indicated left.  
\* Auto switches are not included with a unit.