### RM Series

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RM-Series Rotary Manifold utilizes a unique concept in transferring air pressure through fixed ports to rotating parts on the Rotary Platform. As shown the Rotary Manifold and Gripper is a Clean Compact Assembly which allows the Gripper to rotate freely without Rotating Air lines. The RM-Series Rotary Manifold can be supplied without Gripper.

A. LR-Series Rotary Actuator
Available on LR06 & LR20 Rotary Actuator

B. Stationary Flanged Port Plate
Delivers Air Pressure to Rotating Component (Gripper)
Eliminates air lines from tangling

C. Parallel Gripper
Several series of grippers are available
Consult this section of catalog.

How to Order

Rotary Actuator
1 = LR06 Rotary with WGS50 Gripper
2 = LR20 Rotary with WGS50 Gripper
3 = LR20 Rotary with WGL50 Gripper
4 = LR20 Rotary with WGS90 Gripper
5 = LR20 Rotary with WBGS60 Gripper
6 = LR60 Rotary with WBGS90 Gripper
8 = LR06 Rotary without Gripper
9 = LR20 Rotary without Gripper

Rotation
A = 90°
B = 180°

Rotary Actuator Sensing Type
Standard Cord Set
4 = Prox Switch - PNP (sourcing)
5 = Prox Switch - NPN (sinking)
6 = No Sensing
Quick Disconnect Cord Set
W = Prox Switch - PNP (sourcing) Straight
U = Prox Switch - PNP (sourcing) 90 Deg.
Prox switches are 5 mm diameter.

Special Options
X = No Options

Gripper Sensing Position
A = Single Position Open
B = Single Position Closed
C = Two Position Sensing
D = No Sensing

Parallel Gripper Sensing Type
Standard Cord Set
4 = Prox Switch - PNP (sourcing)
5 = Prox Switch - NPN (sinking)
6 = No Sensing
Prox switches are 4 mm diameter.

Rotary Actuator Sensing Position
A = Single Position CW
B = Single Position CCW
C = Two Position CCW
D = No Sensing

When ordering additional switches:

<table>
<thead>
<tr>
<th>Switch Description</th>
<th>Standard Part No.</th>
<th>Quick Disconnect Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prox Switch - PNP (Sourcing)</td>
<td>PROX-5FL2-P</td>
<td>PROX-5QDS-P</td>
</tr>
<tr>
<td>Prox Switch - NPN (Sinking)</td>
<td>PROX-5FL2-N</td>
<td>Not Available</td>
</tr>
<tr>
<td>Quick Disconnect Cable</td>
<td>–</td>
<td>PXCST</td>
</tr>
<tr>
<td>90° 5 meter cable</td>
<td>–</td>
<td>PXC90</td>
</tr>
<tr>
<td>Bronze switch housing for LR &amp; RM Rotaries</td>
<td>–</td>
<td>RSH105</td>
</tr>
</tbody>
</table>

Information subject to change without notice. For ordering information or regarding your local sales office visit www.numatics.com.
NOTE: Consult Rotary section for technical specifications and consult Gripper section for technical specifications
Dimensions: Inches

RM4

NOTE: Consult Rotary section for technical specifications and consult Gripper section for technical specifications

RM5

RM6

4.020
[102.11]

2.008
[51.00]
**RM Series Rotary**

<table>
<thead>
<tr>
<th>Bore</th>
<th>Bracket P/N</th>
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<tbody>
<tr>
<td>RM1</td>
<td>RSH05</td>
</tr>
<tr>
<td>RM2</td>
<td>RSH05</td>
</tr>
<tr>
<td>RM3</td>
<td>RSH05</td>
</tr>
<tr>
<td>RM4</td>
<td>RSH05</td>
</tr>
<tr>
<td>RM5</td>
<td>RSH05</td>
</tr>
</tbody>
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**Quick Disconnect Cables**

### PXCST
- **Wiring Diagram:**
  - M8 x 1
- **Core colors:**
  - BK black
  - BN brown
  - BU blue
- **Specifications:**
  - BLUE (-)
  - BROWN (+)
  - BLACK (OUTPUT)
  - 26 GAUGE WIRES
  - 196.85 [5000]
  - 1.50 [38.1]
- **Order Code:** PXCST
- **Type:** Straight 5 m Cable (3 x 26 Gauge wire)
- **Operating Voltage:** 60 AC/75 DC
- **Current Rating:** 3 A
- **Cable Material:** PUR
- **Protection:** IP 68, III
- **Connector:** M8

### PXC90
- **Wiring Diagram:**
  - M8 x 1
- **Core colors:**
  - BN brown
  - BU blue
- **Specifications:**
  - BLUE (+)
  - BROWN (+)
  - BLACK (OUTPUT)
  - 26 GAUGE WIRES
  - 196.85 [5000]
  - 1.50 [38.1]
- **Order Code:** PXC90
- **Type:** 90° 5 m Cable (3 x 26 Gauge wire)
- **Operating Voltage:** 60 AC/75 DC
- **Current Rating:** 3 A
- **Cable Material:** PUR
- **Protection:** IP 68, III
- **Connector:** M8

**Sensor Description**
- **Standard Cord Set:**
  - Prox PNP: PROX-5FL2-P
  - Prox NPN: PROX-5QL2-N
- **Quick Disconnect:**
  - PNP: PROX-5QDS-P
  - Not Available
Prox Switch (NPN NO) Flying Lead - PROX-5FL2-N
Prox Switch (PNP NO) Flying Lead - PROX-5FL2-P

Prox Switch (PNP NO) 8 mm connector - PROX-5QDS-P

Electrical Design
Output
Operating Voltage
Current Rating
Short-Circuit Protection
Overload Protection
Reverse Polarity Protection
Voltage Drop
Current Consumption
Real Sensing Range
Switching Frequency
Ambient Temperature
Protection
Switch-Point Drift
Hysteresis
Operating Distance
Correction Factor
Housing Material
Function Display Switching Status
Connection
Remarks
Agency Approvals

3-Wire DC PNP/NPN
Normally Open
10-36 VDC
100 mA
Yes (Non-Latching)
Yes
< 2.5V
< 15 mA @ 24V
.8mm ± 10%
> 2000 Hz
-25°C to 70°C
IP 65, III
-10 - 10% OF Sr
1 - 15% OF Sr
0 - .65mm
Mild Steel=.1, Stainless Steel=.7,
Brass=.5, Alum.=.4, Copper=.3
Housing; Stainless Steel: POM
Red LED
PVC Cable, 2m, 3 x .14mm2

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