Lintra-Lite Actuators
Series A44000, Rodless Cylinders
Double Acting

LINTRA®-LITE Series A44000 Rodless Cylinders
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Self-retaining Sealing System has one of the lowest leakage rates in the industry.

The LINTRA®-LITE rodless cylinder is a cost effective solution for application where light loading is required or where external guiding will be used to support the load.
Lintra-Lite Actuators

Features

1. LINTRA®-LITE rodless cylinders require less space for installation since the stroke of the cylinder is contained within the length of the cylinder itself.
2. Non-rotating load carrying capability without additional guide rods and bearings.
3. Rodless design means there is no rod that can buckle or kink.
4. Equal forces can be applied to each stroke direction.
5. All stroke lengths are custom made to customer requirements.
6. Stroke lengths are available up to 236" (6000mm). For longer stroke lengths, consult factory.
7. LINTRA®-LITE features a choice of bore sizes:
   - Ø 1" = 0.984" (Ø 25mm)
   - Ø 1 1/4" = 1.260" (Ø 32mm)
   - Ø 1 1/2" = 1.575" (Ø 40mm)

The Extruded Tube of the LINTRA®-LITE Series A44000 Cylinder

Cushion adjustment optional at both ends of the cylinder.
Magnetic piston optional.
Integral switch rail on both sides of the extrusion.
Main components are made of anodized, corrosion resistant aluminum, with zinc plated steel integral foot mount end covers.
Velocities up to 4.9 ft/sec (1.5 m/s) are achievable.
The LINTRA®-LITE is designed for easy maintenance.
Polyurethane seals provide long life.

Cylinder Deflection

Deflection due to external load.

Deflection due to cylinder weight.

Cylinder Ø 40mm, external force 25 lbs. force (120 N), distance between supports 98 inches (2500mm).
Required: Total deflection
1. Deflection due to external force (f1): See diagram
   \[
   f_1 = \frac{0.039}{20.23 \text{ lbs.} (1\text{mm}/90 \text{ N}) \cdot 25 \text{ lbs.} (120 \text{ N})}
   \]
   \[
   = 0.024\text{ in.} (0.6\text{ mm})
   \]
   Total deflection: \(0.051\text{ in.} (1.3\text{ mm})\)
2. Deflection due to cylinder weight (f2): See diagram
   \[
   f_2 \leq \frac{0.039}{20.23 \text{ lbs.} (1\text{mm}/90 \text{ N}) \cdot 25 \text{ lbs.} (120 \text{ N})}
   \]
   \[
   = 0.024\text{ in.} (0.6\text{ mm})
   \]
   Maximum permitted deflection:
   \[
   f_1 + f_2 \leq 0.039\text{ in.} (1\text{mm}) \text{ per 39.37 inches} (1000\text{mm}) \text{ stroke.}
   \]
   Result: 0.075 inches (1.9mm) are below the maximum permitted deflection of 0.098 inches (2.5mm).
Operating Specifications

Operating Temperature:
-22°F to 180°F (-30°C to 80°C)
  *With dewpoint of supply air less than ambient air temperature at cylinder, consult our Technical Service for use below +36°F (+2°C)

Operating Pressure:
15 to 116 psig (1 to 8 bar)

Bore Sizes:
- Ø 1" = 0.984" (Ø 25mm)
- Ø 1¼" = 1.260" (Ø 32mm)
- Ø 1½" = 1.575" (Ø 40mm)

Stroke Lengths:
236 inches (6000mm) max.

Supply:
Compressed air, filtered to 50-microns and lubricated.

Cushion Lengths:
- Ø 1" = 0.709" (Ø 25mm = 18mm)
- Ø 1¼" = 0.906" (Ø 32mm = 23mm)
- Ø 1½" = 1.378" (Ø 40mm = 35mm)

Magnetic Sensing Switches:
Refer to pp. 8 - 11

Loading values for LINTRA®-LITE cylinders
The values given in the table below show the forces in the directions Fy and Fz and the maximum moments Mx, My and Mz. All values are applicable for speeds up to .66 ft/s (0.2 m/s). A requirement for using these values is a smooth movement of the mass over the whole stroke length of the cylinder. The reference point from which the moments for all cylinders should be calculated is the center line of the piston.

Total loads
When a LINTRA®-LITE cylinder has to take several loads and moments, an additional calculation is necessary using the following formula:

\[
\frac{M_x}{M_{x \max}} + \frac{M_y}{M_{y \max}} + \frac{M_z}{M_{z \max}} + \frac{F_y}{F_{y \max}} + \frac{F_z}{F_{z \max}} \leq 1
\]

Pressure

<table>
<thead>
<tr>
<th>Cylinder Ø mm</th>
<th>Theoretical forces at 6 bar (N)</th>
<th>Air consumption per stroke at 6 bar (cu.ft./in. /l/cm)</th>
<th>Cushion length (mm)</th>
<th>Loading values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inch Ø mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>25</td>
<td>56 (250)</td>
<td>.03 (0.005)</td>
<td>1.378 (35)</td>
</tr>
<tr>
<td>1¼&quot;</td>
<td>32</td>
<td>92 (410)</td>
<td>.06 (0.066)</td>
<td>143 (840)</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>40</td>
<td>143 (840)</td>
<td>.05 (0.088)</td>
<td>146 (86)</td>
</tr>
</tbody>
</table>

Thrust – Based on 75% of Theoretical Thrust

\[
\text{Thrust} = 0.75 \times \text{Theoretical Thrust}
\]

1 bar = 14.5 PSI
1 kg = 2.205 lbs.
1 m/s = 3.3 ft/s

Materials of Construction

Barrel: Anodized aluminum alloy
End covers: Zinc plated steel/aluminum
Yoke: Anodized aluminum alloy
Cover and Pistons: Plastic
Sealing strip: Polyurethane
Cover strip: Polyamide
Seals: Nitrile rubber and polyurethane

Loading values applicable to a speed of ≤ .66 ft/s (≤ 0.2 m/s). Maximum working life is normally reached below a speed of 3.3 ft/s (1 m/s).
Lintra-Lite Actuators

LINTRA-LITE Rodless Cylinders
Non-magnetic and Magnetic Piston
Double Acting Ø 1", 1¼", 1½" (25, 32, 40mm)

1. New compact, space-saving design
1. Proven sealing system
1. Integral switch mounting
1. Bumper or adjustable cushioning
1. Integral foot mount end covers are standard

Basic Dimensions
A44000 Standard Cylinders

<table>
<thead>
<tr>
<th>Dimension</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
<th>Q</th>
<th>R*</th>
<th>S</th>
<th>T</th>
<th>U</th>
<th>W</th>
<th>X</th>
<th>Z max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;  25mm</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
<td>.79 (20)</td>
<td>1.95 (49.5)</td>
</tr>
<tr>
<td>1¼&quot; 32mm</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
<td>.79 (20)</td>
<td>2.24 (57)</td>
</tr>
<tr>
<td>1½&quot; 40mm</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
<td>.79 (20)</td>
</tr>
</tbody>
</table>

*Optional NPT or ISO G thread. NPT dimensions are in inches, ISO G dimensions are in mm.
MOUNTINGS

Q44000AAAAAM337 — Swinging Bridge Mounting Style ‘S’

Q44000AAAAAM332 — Center Support Mounting Style ‘V’
## Lintra-Lite Actuators

**All Dimensions in Inches (mm)**

**All Weights in Pounds (Kilograms)**

### Model Codes for Inch (Metric)

<table>
<thead>
<tr>
<th>Cylinder Diameters Nominal Inch (mm)</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 1&quot; (ø 25mm)</td>
<td>25</td>
</tr>
<tr>
<td>ø 1 1/4&quot; (ø 32mm)</td>
<td>32</td>
</tr>
<tr>
<td>ø 1 1/2&quot; (ø 40mm)</td>
<td>48</td>
</tr>
</tbody>
</table>

### Cylinder Weights

In pounds (kilograms)

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Basic Cylinder Weight lbs. Kg</th>
<th>Style 'S' Mounting Weight lbs. Kg</th>
<th>Style 'V' Mounting Weight lbs. Kg</th>
<th>Weight per 100mm of Stroke lbs. Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; (25mm)</td>
<td>1.1</td>
<td>0.5</td>
<td>0.33</td>
<td>0.15</td>
</tr>
<tr>
<td>1 1/4&quot; (32mm)</td>
<td>1.76</td>
<td>0.8</td>
<td>0.44</td>
<td>0.15</td>
</tr>
<tr>
<td>1 1/2&quot; (40mm)</td>
<td>2.87</td>
<td>1.3</td>
<td>0.55</td>
<td>0.25</td>
</tr>
</tbody>
</table>

### Mountings

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Style 'S'</th>
<th>页</th>
<th>Style 'V'</th>
<th>页</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; (25mm)</td>
<td>Q44025AAAAAM337</td>
<td>05</td>
<td>Q44025AAAAAM332</td>
<td>05</td>
</tr>
<tr>
<td>1 1/4&quot; (32mm)</td>
<td>Q44032AAAAAM337</td>
<td>05</td>
<td>Q44032AAAAAM332</td>
<td>05</td>
</tr>
<tr>
<td>1 1/2&quot; (40mm)</td>
<td>Q44040AAAAAM337</td>
<td>05</td>
<td>Q44040AAAAAM332</td>
<td>05</td>
</tr>
</tbody>
</table>

### Switches

<table>
<thead>
<tr>
<th>Model</th>
<th>Reed</th>
<th>Solid state</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M/40</td>
<td>M/40/P</td>
</tr>
<tr>
<td></td>
<td>M/41</td>
<td>M/42/P</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Reed</th>
<th>Solid state</th>
<th>Voltage a.c.</th>
<th>d.c.</th>
<th>Current Max.</th>
<th>Temperature °F</th>
<th>°C</th>
<th>LED</th>
<th>Features</th>
<th>Cable Length</th>
<th>Cable Type</th>
<th>Plug-in Cable Straight</th>
<th>90°</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/40/2</td>
<td>—</td>
<td>10 to 240</td>
<td>10</td>
<td>0.18 A</td>
<td>-4° to 176°</td>
<td>-20° to +80°</td>
<td>1</td>
<td>—</td>
<td>6.5'' (2m) PVC 2 x 0.25</td>
<td>—</td>
<td>—</td>
<td>ACT-11-8</td>
<td></td>
</tr>
<tr>
<td>M/40/C/2</td>
<td>—</td>
<td>10 to 110</td>
<td>10</td>
<td>0.25 A</td>
<td>-4° to 176°</td>
<td>-20° to +80°</td>
<td>—</td>
<td>Changeover</td>
<td>6.5'' (2m) PVC 3 x 0.25</td>
<td>—</td>
<td>—</td>
<td>ACT-11-8</td>
<td></td>
</tr>
<tr>
<td>M/40/P</td>
<td>—</td>
<td>10 to 60</td>
<td>10</td>
<td>0.20 A</td>
<td>-4° to 176°</td>
<td>-20° to +80°</td>
<td>1</td>
<td>—</td>
<td>16.25 (5m) PVC 3 x 0.25</td>
<td>M/P34614/5</td>
<td>M/P34615/5</td>
<td>ACT-11-8</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>M/41/2</td>
<td>10 to 30</td>
<td>10</td>
<td>0.20 A</td>
<td>-4° to 176°</td>
<td>-20° to +80°</td>
<td>1</td>
<td>NPN</td>
<td>6.5'' (2m) PVC 3 x 0.25</td>
<td>—</td>
<td>—</td>
<td>ACT-11-10</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>M/42/2</td>
<td>10 to 30</td>
<td>10</td>
<td>0.20 A</td>
<td>-4° to 176°</td>
<td>-20° to +80°</td>
<td>1</td>
<td>PNP</td>
<td>6.5'' (2m) PVC 3 x 0.25</td>
<td>—</td>
<td>—</td>
<td>ACT-11-10</td>
<td></td>
</tr>
<tr>
<td>—</td>
<td>M/42/P</td>
<td>10 to 30</td>
<td>10</td>
<td>0.20 A</td>
<td>-4° to 176°</td>
<td>-20° to +70°</td>
<td>1</td>
<td>PNP</td>
<td>16.25 (5m) PVC 3 x 0.25</td>
<td>M/P34614/5</td>
<td>M/P34615/5</td>
<td>ACT-11-10</td>
<td></td>
</tr>
</tbody>
</table>

Full information on switches (technical data, polyurethane cable, dimensions etc.) please refer to relevant catalog ACT-11-8 thru 11.
## Spares

### Cylinders with Bumper Cushioning

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Bumper</td>
<td>2</td>
</tr>
<tr>
<td>8/9</td>
<td>Seal/cover strip</td>
<td>1/1</td>
</tr>
<tr>
<td>12/15</td>
<td>Piston/cushion seal</td>
<td>2/2</td>
</tr>
<tr>
<td>13/14</td>
<td>O-Ring</td>
<td>2/2</td>
</tr>
<tr>
<td>37</td>
<td>Cover</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Grease</td>
<td>2</td>
</tr>
</tbody>
</table>

The cylinder model spares kit includes:
- Seal strip (Item 8)
- Cover strip (Item 9)
- Tube (Item 4)

*Variants: A, B, C, or D*

### Cylinders with Adjustable Cushioning

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Bumper</td>
<td>2</td>
</tr>
<tr>
<td>8/9</td>
<td>Seal/cover strip</td>
<td>1/1</td>
</tr>
<tr>
<td>12/15</td>
<td>Piston/cushion seal</td>
<td>2/2</td>
</tr>
<tr>
<td>13/14</td>
<td>O-Ring</td>
<td>2/2</td>
</tr>
<tr>
<td>37</td>
<td>Cover</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Grease</td>
<td>2</td>
</tr>
</tbody>
</table>

The cylinder model spares kit includes:
- Seal strip (Item 8)
- Cover strip (Item 9)
- Tube (Item 4)

*Variants: A, B, C, or D*

### Replacement Parts for A44000AA

#### AN with NPT Port Thread and Stroke in inches

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Model</th>
<th>Spares kit includes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>A44025AA-AN</td>
<td>Q44025AACAAT788*</td>
</tr>
<tr>
<td>11/4&quot;</td>
<td>A44032AA-AN</td>
<td>Q44032AACAAT788*</td>
</tr>
<tr>
<td>11/2&quot;</td>
<td>A44040AA-AN</td>
<td>Q44040AACAAT788*</td>
</tr>
</tbody>
</table>

Seal strip (Item 8) | Cover strip (Item 9) | Tube (Item 4) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C/P41628/*</td>
<td>C/P41631/*</td>
<td>C/P41607/*</td>
</tr>
<tr>
<td>C/P41629/*</td>
<td>C/P41632/*</td>
<td>C/P41613/*</td>
</tr>
<tr>
<td>C/P41630/*</td>
<td>C/P41633/*</td>
<td>C/P41602/*</td>
</tr>
</tbody>
</table>

*NOTE: Spares kits are common for all cylinder variants. Please specify the cylinder model number when ordering spare parts.*

*Insert stroke length in inches.*

### Replacement Parts for A44000AA

#### AA with ISO-G Port Thread and Stroke in mm

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Model</th>
<th>Spares kit includes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm</td>
<td>A44025AA-AA</td>
<td>Q44025AACAAT788*</td>
</tr>
<tr>
<td>32mm</td>
<td>A44032AA-AA</td>
<td>Q44032AACAAT788*</td>
</tr>
<tr>
<td>40mm</td>
<td>A44040AA-AA</td>
<td>Q44040AACAAT788*</td>
</tr>
</tbody>
</table>

Seal strip (Item 8) | Cover strip (Item 9) | Tube (Item 4) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M/P41628/*</td>
<td>M/P41631/*</td>
<td>M/P41607/*</td>
</tr>
<tr>
<td>M/P41629/*</td>
<td>M/P41632/*</td>
<td>M/P41613/*</td>
</tr>
<tr>
<td>M/P41630/*</td>
<td>M/P41633/*</td>
<td>M/P41602/*</td>
</tr>
</tbody>
</table>

*NOTE: Spares kits are common for all cylinder variants. Please specify the cylinder model number when ordering spare parts.*

*Insert stroke length in mm.*

### Torx® Screws

**Tube Torque Torx® Screw 1 (4)**

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Screw Size</th>
<th>Torque</th>
<th>Tool Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; (25mm)</td>
<td>M4x26</td>
<td>3-3.5 Nm</td>
<td>T-20</td>
</tr>
<tr>
<td>11/4&quot; (32mm)</td>
<td>M5x20</td>
<td>6-7 Nm</td>
<td>T-20</td>
</tr>
<tr>
<td>11/2&quot; (40mm)</td>
<td>M6x25</td>
<td>9-10 Nm</td>
<td>T-30</td>
</tr>
</tbody>
</table>

**Cap to Mounting Plate Torx® Screw 2 (1)**

<table>
<thead>
<tr>
<th>Cylinder Ø</th>
<th>Screw Size</th>
<th>Torque</th>
<th>Tool Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; (25mm)</td>
<td>M3x8</td>
<td>3-1 Nm</td>
<td>T-10</td>
</tr>
<tr>
<td>11/4&quot; (32mm)</td>
<td>M3x8</td>
<td>3-1 Nm</td>
<td>T-10</td>
</tr>
<tr>
<td>11/2&quot; (40mm)</td>
<td>M4x10</td>
<td>3-3.5 Nm</td>
<td>T-20</td>
</tr>
</tbody>
</table>

*Torx® Screw 1 (4 required)*

*Torx® Screw 2 (1 required)*
Lintra-Lite Actuators
Magnetically Operated Switches
Reed Switches M/40, M/40/C, TM/40, M/40/P

1. Compact, low profile reed switches.
2. M/40, M/40/P, and TM/40 feature LED indicators.
3. Simple, reliable switching for fast response times.
4. TM/40 high temperature model.
5. M/40/P features a plug-in cable connection.
6. CE – Marking.

Specifications

Form:
- M/40 M/40/P – Normally open with LED
- M/40/C – Normally open/normally closed
- TM/40 – Normally open

Switching Voltage:
- M/40, M/40/C, TM/40 – 110 VAC or 100 VDC maximum
- M/40/P – 60 VAC and 75 VDC maximum

Switching Current:
- M/40, M/40/P – 180 mA (temperature dependent), ACT-11-9
- M/40/C, TM/40 – 250 mA

Contact Rating:
- M/40, TM/40, M/40/P – 10 VA
- M/40/C – 5 VA

Response Time:
- M/40, M/40/C, M/40/P – 0.6 ms
- TM/40 – 1.0 ms

Operating Temperature:
- 32° to 158°F (0° to 70°C)
- TM/40 – 32° to 248°F (0° to 120°C)

Protection Rating:
- I.P.67

Vibration Resistance:
- M/40, TM/40, M/40/P – 10 to 2000Hz 0.11 lbs. (50g)
  (Resonant Frequency = 3 kHz)
- M/40/C – 10 to 2000Hz 0.11 lbs. (50g)
  (Resonant Frequency = 13 kHz)

Cable Length:
- M/40 – 6.5’ (2m), 16.25’ (5m) of P.V.C. covered two core cable
- M/40/C – 6.5’ (2m) of P.V.C. covered three core cable
- TM/40 – 6.5’ (2m) of silicon rubber covered two core cable
- M/40/P – 16.25’ (5m) of P.V.C. or Polyurethane covered three core cable with plug-in connection

Materials
- M/40, M/40/C, M/40/P – Nylon 66 body
- TM/40 – 30% Glass filled Nylon 66 body

NOTE: When used to switch inductive loads such as solenoids, relays etc., arcing can occur across the switch contacts depending on the current and voltage involved. This arcing can be eliminated on d.c. loads by connecting a suitably rated diode across the load or switch. On a.c. loads, arcing is more difficult to eliminate, but the contact life can be greatly extended by reducing the peak voltages by connecting a suitable non-linear resistor (V.D.R.) across the load or switch.

Alternative Models
- M/41 Solid state model with hardwired cable – see ACT-11-10
- M/42 Solid state model with hardwired cable – see ACT-11-10
- M/42/P Solid state model with plug-in cable – see ACT-11-10
General Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Switch type</th>
<th>Cable length</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/40</td>
<td>LED, Normally open, hardwired</td>
<td>6.5’ (2), 16.25’ (5)</td>
</tr>
<tr>
<td>M/40/C</td>
<td>Normally open/Normally closed - changeover, hardwired</td>
<td>6.5’ (2)</td>
</tr>
<tr>
<td>TM/40</td>
<td>Normally open, high temperature, hardwired</td>
<td>6.5’ (2)</td>
</tr>
<tr>
<td>M/40/P</td>
<td>Normally open with LED, plug-in cable</td>
<td>16.25’ (5)</td>
</tr>
</tbody>
</table>

NOTE: Switches are ordered separately.

Effect of High Temperatures – M/40 and M/40/P with LED

When using a Reed Switch that incorporates an LED, the maximum switching current should be reduced in direct proportion to the rise in temperature above 77°F (25°C).

At maximum temperature of 158°F (70°C) the maximum switching current must be derated to 80mA.

M/40, M/40/C, TM/40 Magnetically Operated Switches, with hardwired cable

Switches are mounted in the integral slot of the extruded tube.

Polarity:
- Red +
- Blue –

Normally open/normally closed:
- Red common
- Blue normally closed
- Green normally open

M/40/P Magnetically Operated Switches, with plug-in cable*

Switches are mounted in the integral slot of the extruded tube.

Polarity:
- Brown +
- Blue –

<table>
<thead>
<tr>
<th>Cable No.</th>
<th>Connector type</th>
<th>Outer cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/P34595/5</td>
<td>Straight</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>M/P34596/5</td>
<td>Angled 90°</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>M/P34614/5</td>
<td>Straight</td>
<td>P.V.C.</td>
</tr>
<tr>
<td>M/P34615/5</td>
<td>Angled 90°</td>
<td>P.V.C.</td>
</tr>
</tbody>
</table>

*Cable must be ordered separately.
Lintra-Lite Actuators
Magnetically Operated Switches
Solid State Switches M/41, M/42, M/42/P

Specifications
Form:
- M/41 – Solid state with LED (NPN, sinking, grounded emitter output)
- M/42, M/42/P – Solid state with LED (PNP, sourcing, open collector output)
Switching Voltage:
- 10V to 28VDC only
- M/42/P – 10V to 30VDC only
Switching Current:
- M/41 – 20 mA
- M/42, M/42/P – 300 mA
Response Time:
- 1.5 µs
Operating Temperature:
- 32° to 158°F (0° to 70°C)
Protection Rating:
- I.P.67
Vibration Resistance:
- Immune to shock loads
Cable Length:
- M/41, M/42 – 6.5’ (2m) of P.V.C. covered three core cable
- M/42/P – 16.25’ (5m) of P.V.C. or Polyurethane covered three core cable with plug-in connection.
Switch Protection:
- Diode protection must be used with inductive loads.

Materials
Nylon 66 body.

Alternative Models
- M/40 Hardwired cable model – see ACT-11-8
- M/40/C Normally open/normally closed model with integral cable – see ACT-11-8
- M/40/P Plug-in cable model – see ACT-11-8
- TM/40 High temperature model – see ACT-11-8
Lintra-Lite Actuators
All Dimensions in Inches (mm)
All Weights in Pounds (Kilograms)

General Information

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<th>Cable length</th>
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<tr>
<td>M/41</td>
<td>Solid State with LED, sinking, NPN, hardwired cable</td>
<td>6.5' (2)</td>
</tr>
<tr>
<td>M/42</td>
<td>Solid State with LED, sourcing, PNP, hardwired cable</td>
<td>6.5' (2)</td>
</tr>
<tr>
<td>M/42/P</td>
<td>Solid State with LED, sourcing, PNP, plug-in cable</td>
<td>16.25' (5)</td>
</tr>
</tbody>
</table>

NOTE: Switches are ordered separately.

M/41, M/42 Magnetically Operated Switches, with hardwired cable

Switches are mounted in the integral slot of the extruded tube.

Polarity:
- Red +
- Blue –
- Green Output

M/42/P Magnetically Operated Switches, with plug-in cable*

Switches are mounted in the integral slot of the extruded tube.

Polarity:
- Brown +
- Blue –
- Black Output

*Cable must be ordered separately.

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