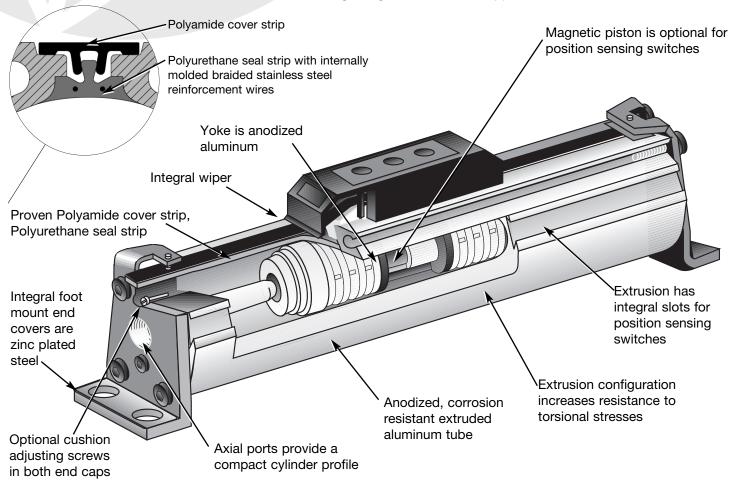
Lintra-Lite Actuators

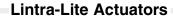
Series A44000, Rodless Cylinders Double Acting

| LINTRA®LITE Series A44000 Rodless Cylinders | |
|-------------------------------------------------------|----------|
| Series A44000 Features | ACT-11-2 |
| Series A44000 Specifications | ACT-11-3 |
| Series A44000 Basic Cylinder | ACT-11-4 |
| Series A44000 Cylinder Mounting Styles | ACT-11-5 |
| Series A44000 How to Order | ACT-11-6 |
| Series A44000 Spare Kits | ACT-11-7 |
| M/40 Magnetically Operated Reed Switches | ACT-11-8 |
| M/41, M/42 Magnetically Operated Solid State Switches | |

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.







Features

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

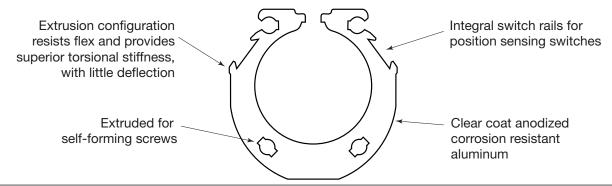
 \emptyset 1" = 0.984" (\emptyset 25mm)

 \emptyset 1¹/₄" = 1.260" (\emptyset 32mm)

 \emptyset 1¹/₂" = 1.575" (\emptyset 40mm)

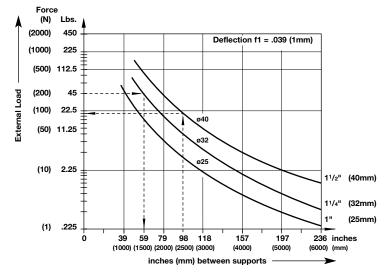
- Cushion adjustment optional at both ends of the cylinder.
- Magnetic piston optional.
- Integral switch rail on both sides of the extrusion.
- Main components are made of anodized, corrosion resistant aluminum, with zinc plated steel integral foot mount end covers.
- Velocities up to 4.9 ft/sec (1.5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

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



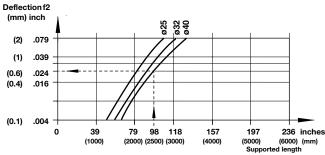
Cylinder Deflection

Deflection due to external load.



Cylinder \emptyset 1 $^{1}/_{4}$ " (32mm), stroke length 138" (3500mm), external load 45 lbs. (200 N). Maximum distance between supports = 59 inches (1500mm) (see diagram). Therefore additional support is required.

Deflection due to cylinder weight.



Cylinder \varnothing 40mm, external force 25 lbs. force (120 N), distance between supports 98 inches (2500mm).

Required: Total deflection

Total deflection:

 Deflection due to external force (f1): See diagram → .039"/20.23 lbs. (1mm/90 N) · 25 lbs. (120 N) 2.Deflection due to cylinder weight (f2): See diagram →

.051" (1.3mm) +.024" (0.6mm) .075" (1.9mm)

Maximum permitted deflection:

f1 + f2 \leq .039 inches (1mm) per 39.37 inches (1000mm) stroke. Result: .075 inches (1.9mm) are below the maximum permitted deflection of .098 inches (2.5mm).





Operating Specifications

Operating Temperature:

-22° 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:

 \emptyset 1" = 0.984" (\emptyset 25mm)

 \emptyset 1¹/₄" = 1.260" (\emptyset 32mm)

 \emptyset 1¹/₂" = 1.575" (\emptyset 40mm)

Stroke Lengths:

236 inches (6000mm) max.

Supply:

Compressed air, filtered to 50-microns and lubricated.

Cushion Lengths:

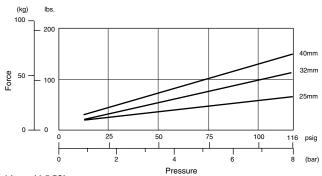
 \emptyset 1" = 0.709" (\emptyset 25mm = 18mm)

Ø $1^{1/4}$ " = 0.906" (Ø 32mm = 23mm) Ø $1^{1/2}$ " = 1.378" (Ø 40mm = 35mm)

Magnetic Sensing Switches:

Refer to pp. 8 - 11

Thrust - Based on 75% of 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

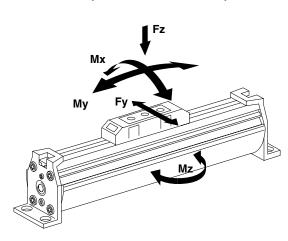
Loading values for LINTRA®-LITE cylinders

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:

$$\frac{Mx}{Mx \ max} \ + \ \frac{My}{My \ max} \ + \ \frac{Mz}{Mz \ max} \ + \ \frac{Fy}{Fy \ max} \ + \ \frac{Fz}{Fz \ max} \le 1$$



Thrust • Air Consumption • Cushion Length • Loading Values

| | | Theore | tical forces | Air con | sumption | Cushio | ı length | Loadin | g values | | | | | | | | |
|--------|----|---------|--------------|----------|--------------|--------|----------|--------|----------|-----|-------|--------|------|--------|------|--------|------|
| Cylind | er | at 6 ba | ır | per str | oke at 6 bar | | | Fy | | Fz | | Mx | | My | | Mz | |
| Inch Ø | mm | lbs | (N) | cu.ft./i | n.(I/cm) | Inch | (mm) | lbs | (N) | lbs | (N) | in/lbs | (Nm) | in/lbs | (Nm) | in/lbs | (Nm) |
| 1" | 25 | 56 | (250) | 0.03 | (0.035) | .709 | (18) | 20 | (90) | 63 | (280) | 9 | (1) | 115 | (13) | 35 | (4) |
| 11/4" | 32 | 92 | (410) | 0.04 | (0.056) | .906 | (23) | 27 | (120) | 83 | (370) | 18 | (2) | 186 | (21) | 53 | (6) |
| 11/2" | 40 | 143 | (640) | 0.06 | (0.088) | 1.378 | (35) | 54 | (240) | 162 | (720) | 36 | (4) | 496 | (56) | 142 | (16) |

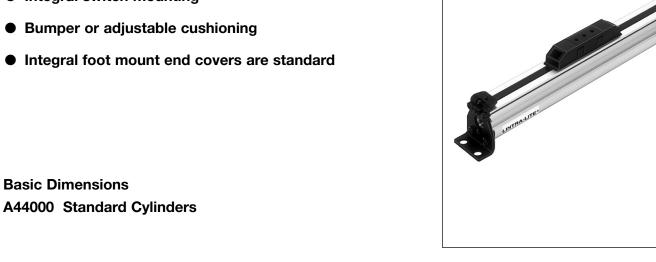
Loading values applicable to a speed of \leq .66 ft/s (\leq 0.2 m/s). Maximum working life is normally reached below a speed of 3.3 ft/s (1 m/s).

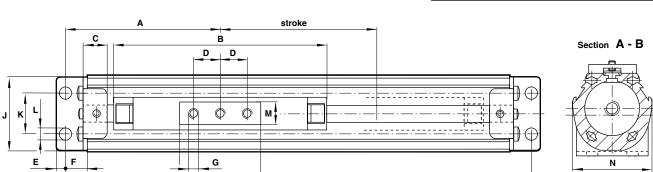




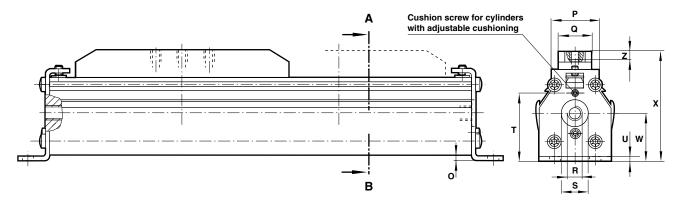
LINTRA®-LITE Rodless Cylinders **Non-magnetic and Magnetic Piston** Double Acting Ø 1", 11/4", 11/2" (25, 32, 40mm)

- New compact, space-saving design
- Proven sealing system
- Integral switch mounting





2 x A + stroke



| Dimension | ı | ١ | В | | C | ; | D | | Е | ! | F | | G | Н | | J | | K | | Ø | L |
|------------|------|---------|------|-------|-----|------|-----|--------|-----|-----|-----|------|-----|------|------|------|------|------|------|-----|-----|
| 1" 25mm | 3.03 | (77) | 3.94 | (100) | .47 | (12) | .49 | (12.5) | .20 | (5) | .47 | (12) | M 5 | 1.57 | (40) | 1.42 | (36) | .71 | (18) | .28 | (7) |
| 11/4" 32mm | 3.66 | (93) | 4.72 | (120) | .71 | (18) | .59 | (15) | .28 | (7) | .59 | (15) | M 6 | 1.97 | (50) | 1.89 | (48) | 1.02 | (26) | .35 | (9) |
| 11/2" 40mm | 4.62 | (117.5) | 6.50 | (165) | .71 | (18) | .79 | (20) | .28 | (7) | .67 | (17) | M 6 | 2.36 | (60) | 2.13 | (54) | 1.18 | (30) | .35 | (9) |

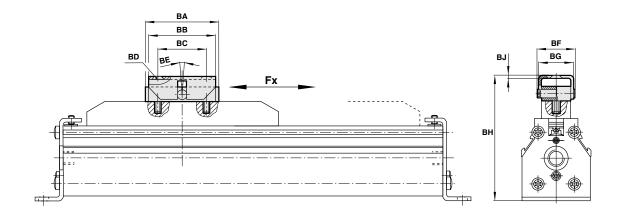
| Dimension | М | N | 0 | Р | Q | R* | ØS | T | U | W | Х | Z max. |
|-------------------------|----------|-------------|-----------|-----------|----------|---------------|----------|-------------|---------|-------------|-------------|----------|
| 1" 25mm | .71 (18) | 1.57 (40) | .10 (2.5) | 1.10 (28) | .87 (22) | NPT 1/8 G 1/8 | .47 (12) | 1.20 (30.5) | .08 (2) | .85 (21.5) | 2.10 (53.5) | .28 (7) |
| 11/4" 32mm | .79 (20) | 1.95 (49.5) | .14 (3.5) | 1.26 (32) | .94 (24) | NPT 1/8 G 1/8 | .67 (17) | 1.57 (40) | .12 (3) | 1.12 (28.5) | 2.76 (70) | .39 (10) |
| 1 ¹ /2" 40mm | .79 (20) | 2.24 (57) | .14 (3.5) | 1.42 (36) | .94 (24) | NPT 1/4 G 1/4 | .79 (20) | 1.95 (49.5) | .12 (3) | 1.38 (35) | 3.21 (81.5) | .39 (10) |

^{*}Optional NPT or ISO G thread. NPT dimensions are in inches, ISO G dimensions are in mm.



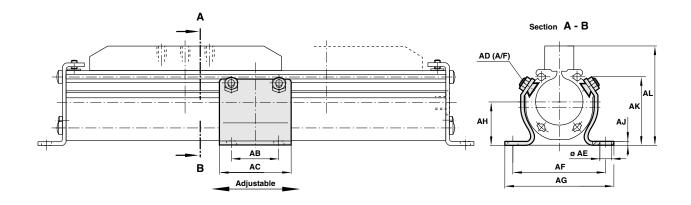
MOUNTINGS

Q44000AAAAAM337 — Swinging Bridge Mounting Style 'S'



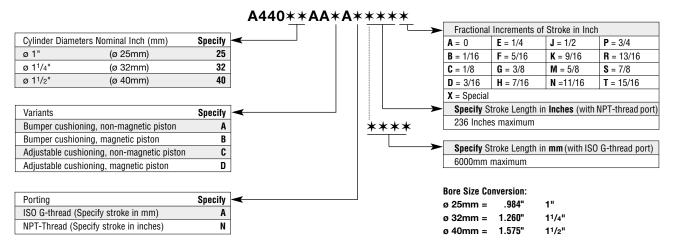
| Dime | nsion | | BA | | BB | | BC | BD (DIN 74) | | BE | | BF | | BG | В | Н | | BJ |
|-------|-------|------|------|------|------|------|------|-------------|-------|------|------|------|------|------|---------|----------|-----|-----|
| 1" | 25mm | 1.57 | (40) | 1.57 | (40) | 1.10 | (28) | BM 6 | ±.315 | ±(8) | 1.14 | (29) | 1.10 | (28) | 2.70+.2 | (68.5+5) | .08 | (2) |
| 11/4" | 32mm | 1.97 | (50) | 2.17 | (55) | 1.57 | (40) | BM 6 | ±.315 | ±(8) | 1.22 | (31) | 1.18 | (30) | 3.44+.2 | (87.5+5) | .08 | (2) |
| 11/2" | 40mm | 2.36 | (60) | 2.17 | (55) | 1.57 | (40) | BM 6 | ±.315 | ±(8) | 1.22 | (31) | 1.18 | (30) | 3.92+.2 | (99.5+5) | .08 | (2) |

Q44000AAAAAM332 — Center Support Mounting Style 'V'



| Dime | nsion | | AB | | AC | AD | (A/F) | Q | AE. | | AF | | AG | | AH | | AJ | | AK | | AL |
|-------|-------|------|------|------|------|-----|-------|-----|-------|------|------|------|------|------|--------|-----|-----|------|------|------|--------|
| 1" | 25mm | .98 | (25) | 1.57 | (40) | .39 | (10) | .26 | (6.6) | 2.28 | (58) | 2.76 | (70) | .85 | (21.5) | .12 | (3) | 1.22 | (31) | 2.11 | (53.5) |
| 11/4" | 32mm | 1.18 | (30) | 1.97 | (50) | .39 | (10) | .35 | (9) | 2.76 | (70) | 3.27 | (83) | 1.12 | (28.5) | .12 | (3) | 1.69 | (43) | 2.76 | (70) |
| 11/2" | 40mm | 1.57 | (40) | 2.36 | (60) | .39 | (10) | .35 | (9) | 3.11 | (79) | 3.62 | (92) | 1.37 | (35) | .12 | (3) | 2.17 | (55) | 3.21 | (81.5) |

Model Codes for Inch (Metric)



Cylinder Weights

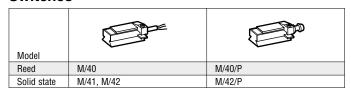
In pounds (kilograms)

| Cyl | inder Ø | Basic Cy lbs. | linder Weight Kg | Style 'S' lbs. | Mounting Weight Kg | Style 'V' N lbs. | Nounting Weight Kg | Weight per Inch of Stroke | per 100mm of Stroke |
|------|-----------|------------------|---------------------|-------------------|-----------------------|---------------------|-----------------------|------------------------------|------------------------|
| 1" | (25mm) | 1.1 | 0.5 | 0.33 | 0.15 | 0.15 | 0.07 | 0.08 lbs. | 0.15 Kg |
| 11/ | (32mm) | 1.76 | 0.8 | 0.44 | 0.20 | 0.33 | 0.15 | 0.14 lbs. | 0.25 Kg |
| 11/: | 2" (40mm) | 2.87 | 1.3 | 0.55 | 0.25 | 0.55 | 0.25 | 0.19 lbs. | 0.35 Kg |

Mountings

| | Style 'S' | Style 'V' |
|-----------------------------------------------------|------------------------------------|------------------------------------|
| | | |
| | | |
| | | |
| Cylinder Ø | Page 05 | Page 05 |
| | | |
| 1" (25mm) | Q44025AAAAAM337 | Q44025AAAAAM332 |
| 1" (25mm) 1 ¹ / ₄ " (32mm) | Q44025AAAAAM337 Q44032AAAAAM337 | Q44025AAAAAM332 Q44032AAAAAM332 |

Switches





| Model | | Voltage | | Current | Temperature | 9 | LED | Features | Cable | | Cable | Plug-in Cable | | |
|----------|-------------|-----------|-----------|---------|-------------|--------------|-----|------------|--------|------|--------------|---------------|------------|-----------|
| Reed | Solid state | a.c. | d.c. | Max. | °F | °C | | | Length | | Туре | Straight | 90° | Page |
| M/40/2 | _ | 10 to 240 | 10 to 170 | 0.18 A | -4° to 176° | -20° to +80° | • | _ | 6.5' | (2m) | PVC 2 x 0.25 | _ | _ | ACT-11-8 |
| M/40/C/2 | _ | 10 to 110 | 10 to 175 | 0.25 A | -4° to 176° | -20° to +80° | _ | Changeover | 6.5' | (2m) | PVC 3 x 0.25 | | | ACT-11-8 |
| M/40/P | _ | 10 to 60 | 10 to 75 | 0.18 A | -4° to 176° | -20° to +80° | • | _ | 16.25' | (5m) | PVC 3 x 0.25 | M/P34614/5 | M/P34615/5 | ACT-11-8 |
| _ | M/41/2 | _ | 10 to 30 | 0.20 A | -4° to 158° | -20° to +70° | • | NPN | 6.5' | (2m) | PVC 3 x 0.25 | _ | _ | ACT-11-10 |
| | M/42/2 | _ | 10 to 30 | 0.20 A | -4° to 158° | -20° to +70° | • | PNP | 6.5' | (2m) | PVC 3 x 0.25 | _ | _ | ACT-11-10 |
| _ | M/42/P | _ | 10 to 30 | 0.20 A | -4° to 158° | -20° to +70° | • | PNP | 16.25' | (5m) | PVC 3 x 0.25 | M/P34614/5 | M/P34615/5 | ACT-11-10 |

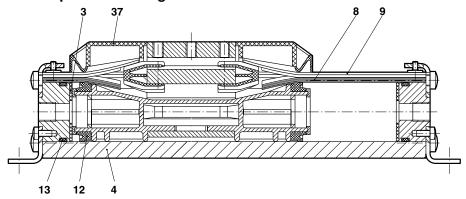
Full information on switches (technical data, polyurethane cable, dimensions etc.) please refer to relevant catalog ACT-11-8 thru 11.



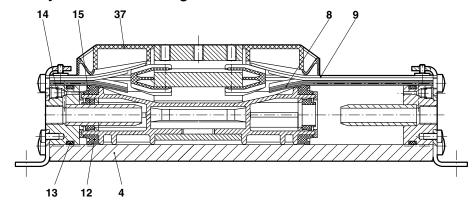


Spares

Cylinders with Bumper Cushioning



Cylinders with Adjustable Cushioning



Replacement Parts for A44000AA*AN with NPT Port Thread and Stroke in inches

| Cylinder | Model | Spares kit includes: | | | | Seal strip | Cover strip | Tube |
|----------|--------------|------------------------|--------------|--------------------------------------|----------------|------------------------|---------------|------------|
| Ø | | | Item | Description | Quantity | Item 8 | Item 9 | Item 4 |
| 1" | A44025AA*AN | Q44025AACANT788* | | Bumper | 2 | C/P41628/* | C/P41631/* | C/P41607/* |
| 11/4" | A44032AA*AN | Q44032AACANT788* | 8/9 12/15 | Seal/cover strip Piston/cushion s | 1/1 | C/P41629/* | C/P41632/* | C/P41613/* |
| 11/2" | A44040AA*AN | Q44040AACANT788* | 13/14 | O-Ring | eai 2/2 2/2 | C/P41630/* | C/P41633/* | C/P41602/* |
| | * Variants | * Insert stroke length | | | 1 | * Insert stroke length | in inches | |
| | A, B, C or D | in inches. | | Grease | 2 | moort stroke length | iii iiioiioo. | |

 $NOTE: Spares \ kits \ are \ common \ for \ \underline{all} \ cylinder \ variants. \ Please \ specify \ the \ cylinder \ model \ number \ when \ ordering \ spare \ parts.$

Replacement Parts for A44000AA*AA with ISO-G Port Thread and Stroke in mm

| Cylinder | Model | Spares kit includes: | | | | Seal strip | Cover strip | Tube |
|----------|--------------|------------------------|----------------|----------------------------|------------|------------------------|-------------|------------|
| Ø | | | Item | Description | Quantity | Item 8 | Item 9 | Item 4 |
| 25mm | A44025AA*AA | Q44025AACAAT788* | - | Bumper | 2 | M/P41628/* | M/P41631/* | M/P41607/* |
| 32mm | A44032AA*AA | Q44032AACAAT788* | 8/9 | Seal/cover strip | | M/P41629/* | M/P41632/* | M/P41613/* |
| 40mm | A44040AA*AA | Q44040AACAAT788* | 12/15 13/14 | Piston/cushion s O-Ring | 2/2 2/2 | M/P41630/* | M/P41633/* | M/P41602/* |
| | * Variants | * Insert stroke length | 37 | Cover | 1 | * Insert stroke length | in mm | |
| | A, B, C or D | in mm. | | Grease | 2 | moore ou one longer | | |

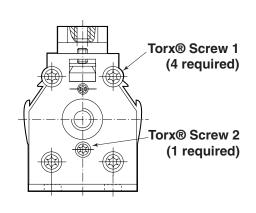
NOTE: Spares kits are common for all cylinder variants. Please specify the cylinder model number when ordering spare parts.

Torx® Screws Tube Torque Torx® Screw 1 (4)

| Cylinder Ø | Screw Size | Torque | Tool Size |
|---------------------------|------------|----------|-----------|
| 1" (25mm) | M4x16 | 3-3.5 Nm | T-20 |
| 11/4" (32mm) | M5x20 | 6-7 Nm | T-25 |
| 1 ¹ /2" (40mm) | M6x25 | 9-10 Nm | T-30 |

Cap to Mounting Plate Torx® Screw 2 (1)

| Cylinder Ø | Screw Size | Torque | Tool Size |
|--------------|------------|----------|-----------|
| 1" (25mm) | M3x8 | .8-1 Nm | T-10 |
| 11/4" (32mm) | M3x8 | .8-1 Nm | T-10 |
| 11/2" (40mm) | M4x10 | 3-3.5 Nm | T-20 |



www.norgren.com





Lintra-Lite Actuators

Magnetically Operated Switches Reed Switches M/40, M/40/C, TM/40, M/40/P

- Compact, low profile reed switches.
- M/40, M/40/P, and TM/40 feature LED indicators.
- Simple, reliable switching for fast response times.
- TM/40 high temperature model.
- M/40/P features a plug-in cable connection.
- 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:

 $M/40-6.5^{\circ}$ (2m),16.25' (5m) of P.V.C. covered two core cable $M/40/C-6.5^{\circ}$ (2m) of P.V.C. covered three core cable $TM/40-6.5^{\circ}$ (2m) of silicon rubber covered two core cable $M/40/P-16.25^{\circ}$ (5m) of P.V.C. or Polyurethane covered three core cable with plug-in connection

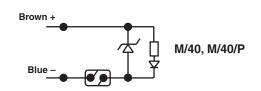
Materials

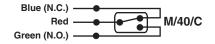
M/40, M/40/C, M/40/P – Nylon 66 body TM/40 – 30% Glass filled Nylon 66 body

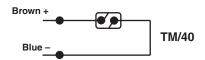
NOTE: When used to switch inductive loads such as solenoids, relays etc., arcing can occur across the switch contacts depending on the current and voltage involved. This arcing can be eliminated on d.c. loads by connecting a suitably rated diode across the load or switch.

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

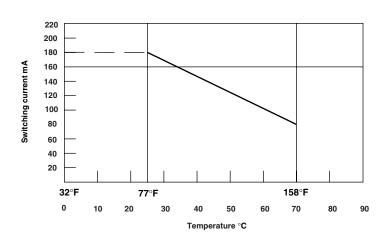
| Model | Model Switch type | |
|--------|-------------------------------------------------------|----------------------|
| M/40 | LED, Normally open, hardwired | 6.5' (2), 16.25' (5) |
| M/40/C | Normally open/Normally closed - changeover, hardwired | 6.5' (2) |
| TM/40 | Normally open, high temperature, hardwired | 6.5' (2) |
| M/40/P | Normally open with LED, plug-in cable | 16.25' (5) |

NOTE: Switches are ordered separately.

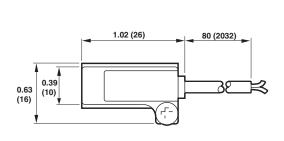
Effect of High Temperatures -M/40 and M/40/P with LED

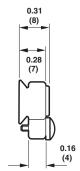
When using a Reed Switch that incorporates an LED, the maximum switching current should be reduced in direct proportion to the rise in temperature above 77°F (25°C).

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 -

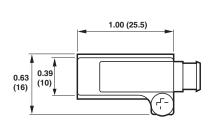
Normally open/normally closed:

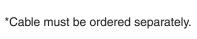
Red common

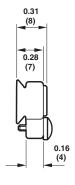
Blue normally closed

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:

Phone 937-833-4033

Brown +

Blue -

| Cable No. | Connector type | Outer cover | |
|------------|----------------|--------------|--|
| M/P34595/5 | Straight | Polyurethane | |
| M/P34596/5 | Angled 90° | Polyurethane | |
| M/P34614/5 | Straight | P.V.C. | |
| M/P34615/5 | Angled 90° | P.V.C. | |

ACT-11-9



Lintra-Lite Actuators

Magnetically Operated Switches Solid State Switches M/41, M/42, M/42/P

- Compact, low profile solid state switches.
- LED indicator is standard.
- Simple, reliable switching with fast response times.
- Particularly suited for use where high levels of vibration are present.
- M/42/P features a plug-in cable connection.
- CE Marking.

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:

 $1.5 \mu s$

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.

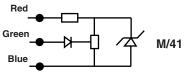
Switch Protection:

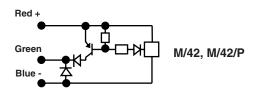
Diode protection must be used with inductive loads.

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

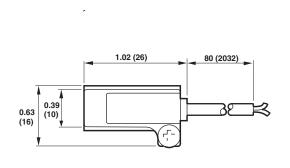
TM/40 High temperature model see ACT-11-8

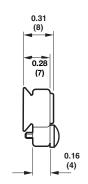
General Information

| Model | Switch type | Cable length |
|--------|------------------------------------------------------|--------------|
| M/41 | Solid State with LED, sinking, NPN, hardwired cable | 6.5' (2) |
| M/42 | Solid State with LED, sourcing, PNP, hardwired cable | 6.5' (2) |
| M/42/P | Solid State with LED, sourcing, PNP, plug-in cable | 16.25' (5) |

NOTE: Switches are ordered separately.

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





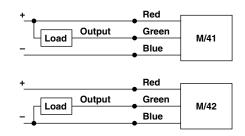
Switches are mounted in the integral slot of the extruded tube.

Polarity:

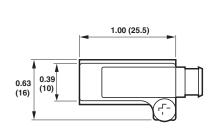
Red +

Blue -

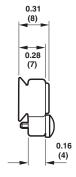
Green Output



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







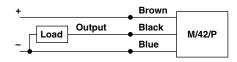
Switches are mounted in the integral slot of the extruded tube.

Polarity:

Brown +

Blue -

Black Output



| Cable No. | Connector type | Outer cover |
|------------|----------------|--------------|
| M/P34595/5 | Straight | Polyurethane |
| M/P34596/5 | Angled 90° | Polyurethane |
| M/P34614/5 | Straight | P.V.C. |
| M/P34615/5 | Angled 90° | P.V.C. |