# Plain Bearing Guide SLIDELINE

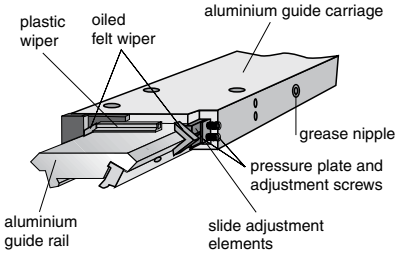
OSP
ORIGA SYSTEM PLUS

**Series SL 16 to 80**
**for Linear-drive**
**• Series OSP-P**

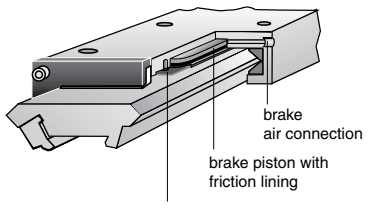
B

## Versions

**for pneumatic linear drive:**
**Series OSP-P**



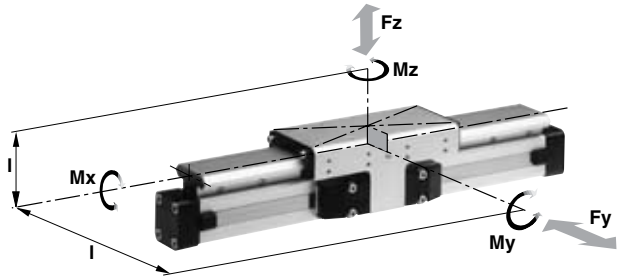

**Option – Integrated Brake**




**Integrated Brake (optional)**
**for series OSP-P25 to OSP-P50:**
- Actuated by pressure
- Released by exhausting and spring return

For further technical data see also linear drives OSP-P (page B7)

## Loads, Forces and Moments




**Technical Data**

The table shows the maximum permissible values for smooth operation, which should not be exceeded even under dynamic conditions.

The load and moment figures apply to speeds v < 0.2 m/s.

*** Please note:**
In the cushioning diagram, add the mass of the guide carriage to the mass to be cushioned.

**Features:**
- Adjustable plastic slide elements – optional with integral brake
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideways.
- Corrosion resistant version available on request.
- Any length of stroke up to 5500 mm (longer strokes on request)

[1] Only with integrated brake: Braking force on dry oil-free surface Values are decreased for lubricated slideways

[2] Corrosion resistant fixtures available on request

| Series | For linear drive | Max. moments (Nm) | | | Max. loads (N) | Maximum braking force at 6 bar (N) [1] | Mass of linear drive with guide (kg) | | Mass * of guide carriage (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Mx | My | Mz | Fy, Fz | with 0 mm stroke | increase per 100 mm stroke | |
| **SL16** | OSP-P16 | 6 | 11 | 11 | 325 | – | 0.57 | 0.22 | 0.23 |
| **SL 25** | OSP-P25 | 14 | 34 | 34 | 675 | 325 | 1.55 | 0.39 | 0.61 |
| **SL 32** | OSP-P32 | 29 | 60 | 60 | 925 | 545 | 2.98 | 0.65 | 0.95 |
| **SL 40** | OSP-P40 | 50 | 110 | 110 | 1500 | 835 | 4.05 | 0.78 | 1.22 |
| **SL50** | OSP-P50 | 77 | 180 | 180 | 2000 | 1200 | 6.72 | 0.97 | 2.06 |
| **SL63** | OSP-P63 | 120 | 260 | 260 | 2500 | – | 11.66 | 1.47 | 3.32 |
| **SL80** | OSP-P80 | 120 | 260 | 260 | 2500 | – | 15.71 | 1.81 | 3.32 |



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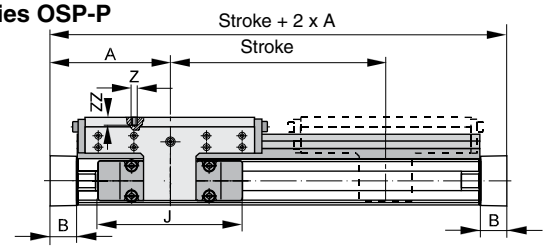
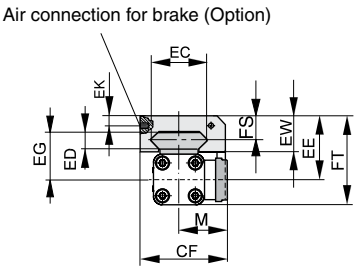
## Dimensions

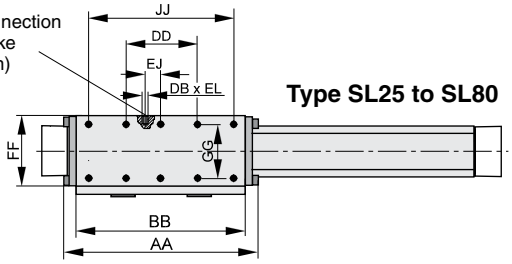
**Series OSP-P**



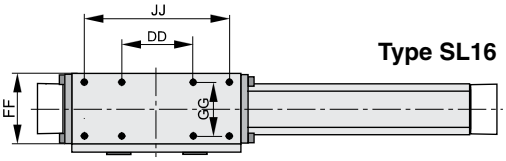




For further mounting elements and options see accessories.

**For further information and technical data see data sheets for linear drives OSP-P (page B7)**




**Type SL25 to SL80**




**Type SL16**

**Dimension Table (mm)**

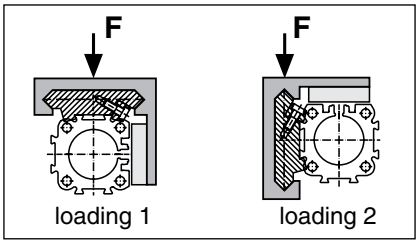
| Series | A | B | J | M | Z | AA | BB | DB | DD | CF | EC | ED | EE | EG | EJ | EK | EL | EW | FF | FT | FS | GG | JJ | ZZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SL16** | 65 | 14 | 69 | 31 | M4 | 106 | 88 | – | 30 | 55 | 36 | 8 | 40 | 30 | – | – | – | 22 | 48 | 55 | 14 | 36 | 70 | 8 |
| **SL25** | 100 | 22 | 117 | 40.5 | M6 | 162 | 142 | M5 | 60 | 72.5 | 47 | 12 | 53 | 39 | 22 | 6 | 6 | 30 | 64 | 73.5 | 20 | 50 | 120 | 12 |
| **SL32** | 125 | 25.5 | 152 | 49 | M6 | 205 | 185 | M5 | 80 | 91 | 67 | 14 | 62 | 48 | 32 | 6 | 6 | 33 | 84 | 88 | 21 | 64 | 160 | 12 |
| **SL40** | 150 | 28 | 152 | 55 | M6 | 240 | 220 | M5 | 100 | 102 | 77 | 14 | 64 | 50 | 58 | 6 | 6 | 34 | 94 | 98.5 | 21.5 | 78 | 200 | 12 |
| **SL50** | 175 | 33 | 200 | 62 | M6 | 284 | 264 | M5 | 120 | 117 | 94 | 14 | 75 | 56 | 81 | 6 | 6 | 39 | 110 | 118.5 | 26 | 90 | 240 | 16 |
| **SL63** | 215 | 38 | 256 | 79 | M8 | 312 | 292 | – | 130 | 152 | 116 | 18 | 86 | 66 | – | – | – | 46 | 152 | 139 | 29 | 120 | 260 | 14 |
| **SL80** | 260 | 47 | 348 | 96 | M8 | 312 | 292 | – | 130 | 169 | 116 | 18 | 99 | 79 | – | – | – | 46 | 152 | 165 | 29 | 120 | 260 | 14 |

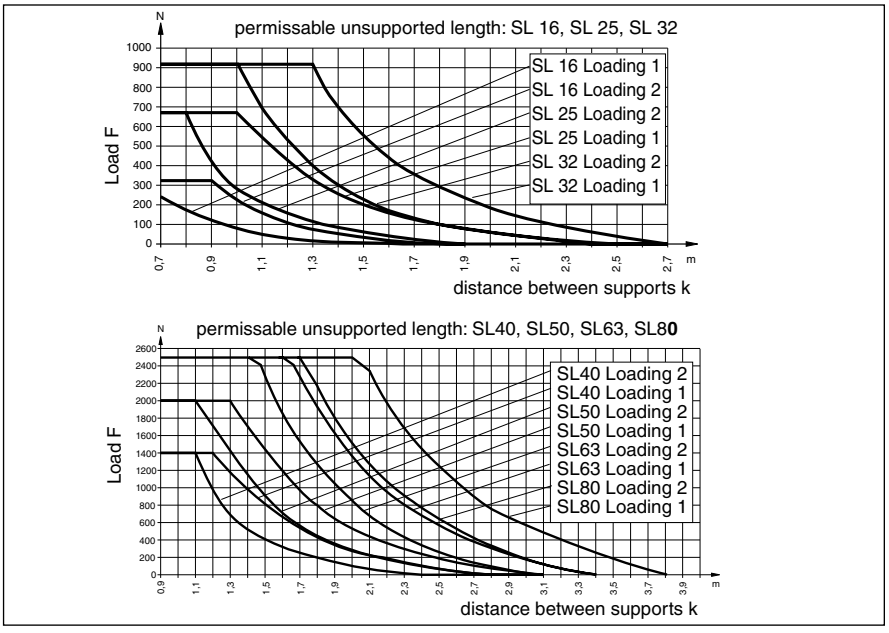
# Mid-Section Support

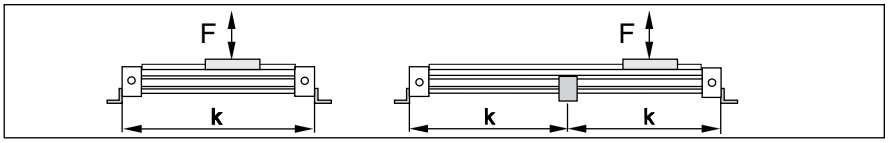
(for versions see pages B47)

Mid-section supports are required from a certain stroke length to prevent excessive deflection and vibration of the linear drive. The diagrams show the maximum permissible unsupported length in relation to loading. A distinction must be drawn between loading 1 and loading 2. Deflection of 0.5 mm max. between supports is permissible.

**Note:**
For speeds v > 0.5 m/s the distance between supports should not exceed 1 m.



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# Multi-Brake Passive Brake

## with plain bearing guide Slideline SL



OSP
ORIGA SYSTEM PLUS

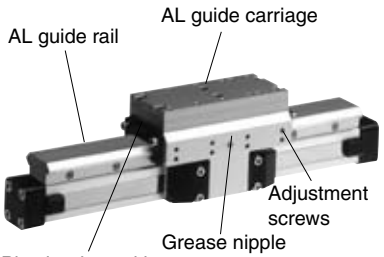
**Series MB-SL 25 to 80 for Linear-drive**

- **Series OSP-P**

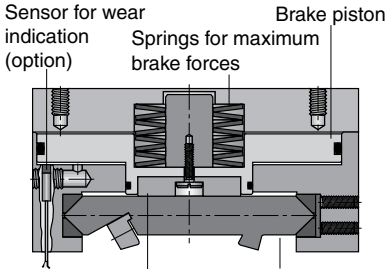
**Features:**

- Brake operated by spring actuation
- Brake release by pressurization
- Optional sensor to indicate brake lining wear
- Anodized aluminum rail, with prism shaped slide elements
- Adjustable plastic slide elements
- Composite sealing system with plastic and felt wiper elements to remove dirt and lubricate the slideway
- Replenishable guide lubrication by integrated grease nipples
- Blocking function in case of pressure loss
- Intermediate stops possible

### Versions




### Function

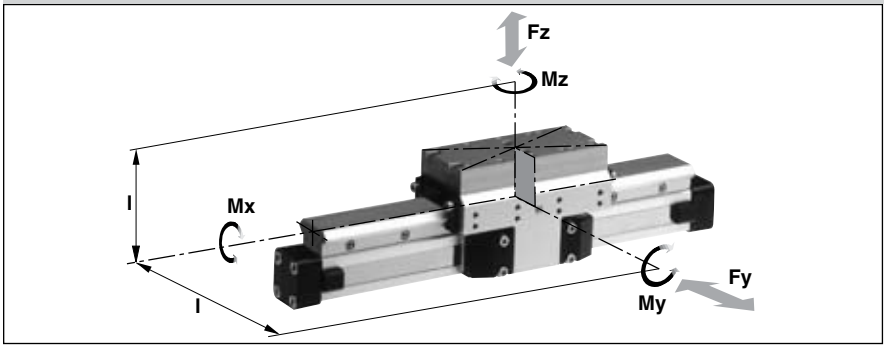



**Function:**

The Multi-Brake is a passive device. When the air pressure is removed the brake is actuated and movement of the cylinder is blocked. The brake is released by pressurization.

The high friction, wear resistant brake linings allow the Multi-Brake to be used as a dynamic brake to stop cylinder movement in the shortest possible time. The powerful springs also allow the Multi-Brake to be used effectively in positioning applications.

### Loads, Forces and Moments




**Technical Data:**

The table shows the maximum values for light, shock-free operation, which must not be exceeded even in dynamic operation.

Load and moment data are based on speeds v < 0.2 m/s.

Operating pressure 4.5 - 8 bar
A pressure of 4.5 bar is required to release the brake.

For further technical information, please refer to the data sheets for linear drives OSP-P (page B7)

[1] Braking surface dry – oil on the braking surface will reduce the braking force

*** Please note:**

in the cushioning diagram, the mass of the guide carriage has to be added to the total moving mass.

| Series | For linear drive | Max. moments (Nm) | | | Max. loads (N) | Max. brake force (N) [1] | Mass of linear drive with guide (kg) | | Mass* guide carriage (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mx | My | Mz | Ly, Lz | | with 0 mm stroke | increase per 100 mm stroke | |
| **MB-SL 25** | OSP-P25 | 14 | 34 | 34 | 675 | 470 | 2.04 | 0.39 | 1.10 |
| **MB-SL 32** | OSP-P32 | 29 | 60 | 60 | 925 | 790 | 3.82 | 0.65 | 1.79 |
| **MB-SL 40** | OSP-P40 | 50 | 110 | 110 | 1500 | 1200 | 5.16 | 0.78 | 2.34 |
| **MB-SL 50** | OSP-P50 | 77 | 180 | 180 | 2000 | 1870 | 8.29 | 0.97 | 3.63 |
| **MB-SL 63** | OSP-P63 | 120 | 260 | 260 | 2500 | 2900 | 13.31 | 1.47 | 4.97 |
| **MB-SL 80** | OSP-P80 | 120 | 260 | 260 | 2500 | 2900 | 17.36 | 1.81 | 4.97 |



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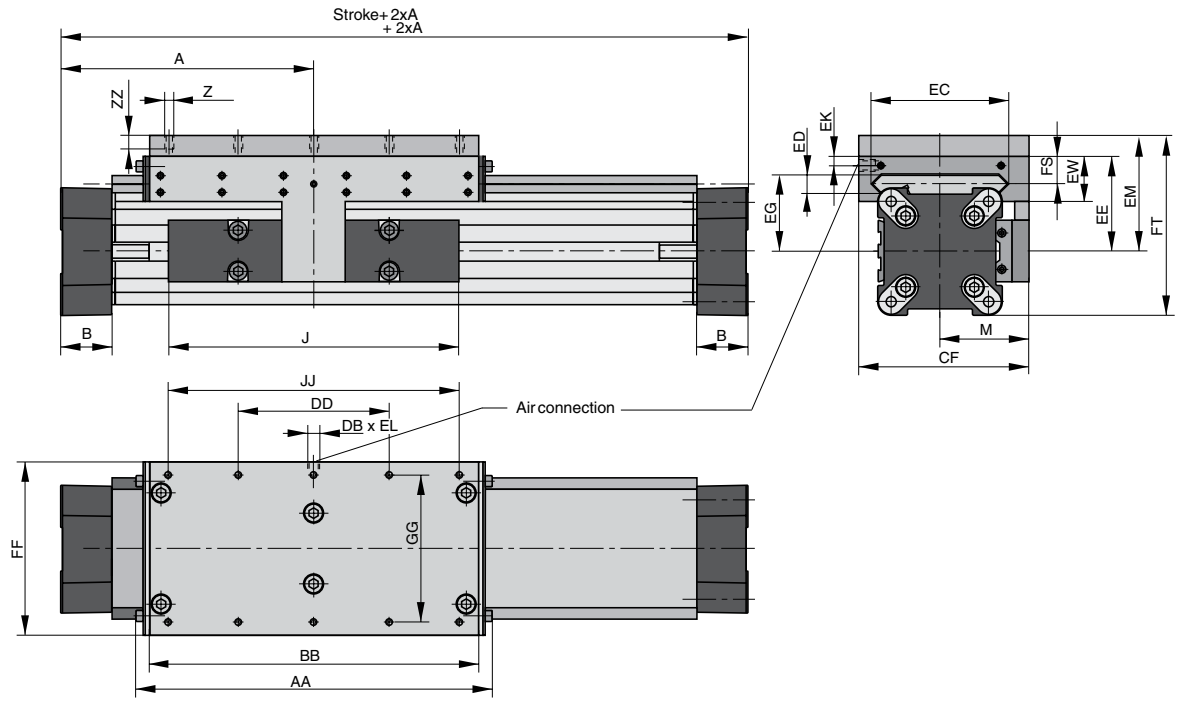
### Series OSP-P with Passive Brake MB-SL




### Dimension Table (mm)

| Series | A | B | J | M | Z | AA | BB | DB | DD | CF | EC | ED | EE | EG | EK | EL | EM | EW | FF | FT | FS | GG | JJ | ZZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MB-SL25** | 100 | 22 | 117 | 40,5 | M6 | 162 | 142 | M5 | 60 | 72.5 | 47 | 12 | 53 | 39 | 9 | 5 | 73 | 30 | 64 | 93.5 | 20 | 50 | 120 | 12 |
| **MB-SL32** | 125 | 25.5 | 152 | 49 | M6 | 205 | 185 | G1/8 | 80 | 91 | 67 | 14 | 62 | 48 | 7 | 10 | 82 | 33 | 84 | 108 | 21 | 64 | 160 | 12 |
| **MB-SL40** | 150 | 28 | 152 | 55 | M6 | 240 | 220 | G1/8 | 100 | 102 | 77 | 14 | 64 | 50 | 6.5 | 10 | 84 | 34 | 94 | 118.5 | 21.5 | 78 | 200 | 12 |
| **MB-SL50** | 175 | 33 | 200 | 62 | M6 | 284 | 264 | G1/8 | 120 | 117 | 94 | 14 | 75 | 56 | 10 | 12 | 95 | 39 | 110 | 138.5 | 26 | 90 | 240 | 12 |
| **MB-SL63** | 215 | 38 | 256 | 79 | M8 | 312 | 292 | G1/8 | 130 | 152 | 116 | 18 | 86 | 66 | 11 | 12 | 106 | 46 | 152 | 159 | 29 | 120 | 260 | 13 |
| **MB-SL80** | 260 | 47 | 348 | 96 | M8 | 312 | 292 | G1/8 | 130 | 169 | 116 | 18 | 99 | 79 | 11 | 12 | 119 | 46 | 152 | 185 | 29 | 120 | 260 | 13 |



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# Mid Section Support

(for versions see page B47)

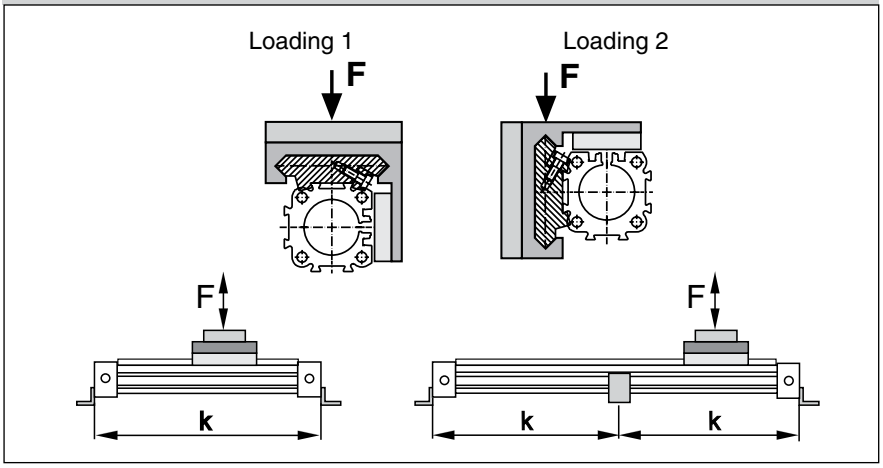
Mid-Section supports are required from a certain stroke length to prevent excessive deflection and vibration of the linear drive.

The diagrams show the maximum permissible unsupported length in relation to loading. A distinction must be drawn between loading 1 and loading 2. Deflection of 0.5 mm max. between supports is permissable.

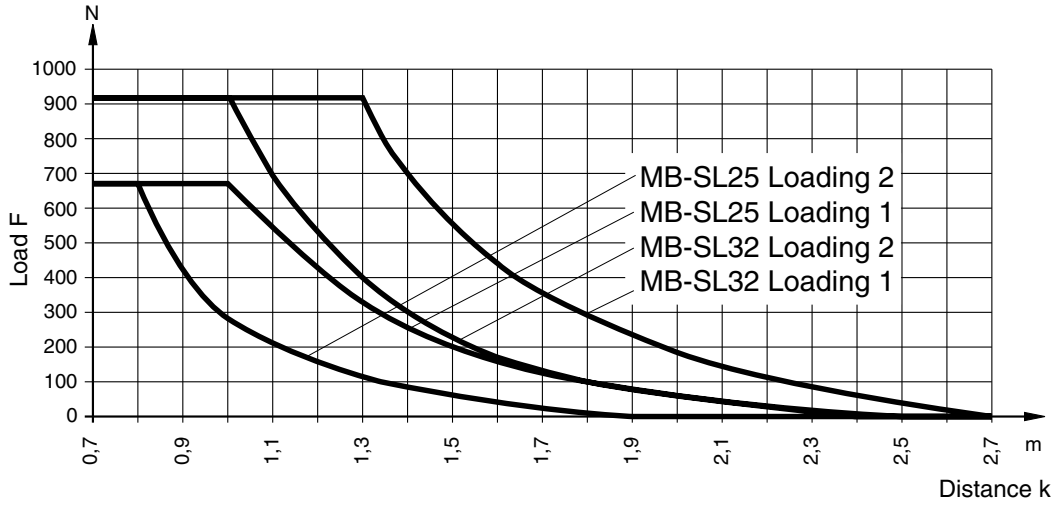
**Note:**
For speeds v > 0.5 m/s the distance between supports should not exceed 1 m.

B

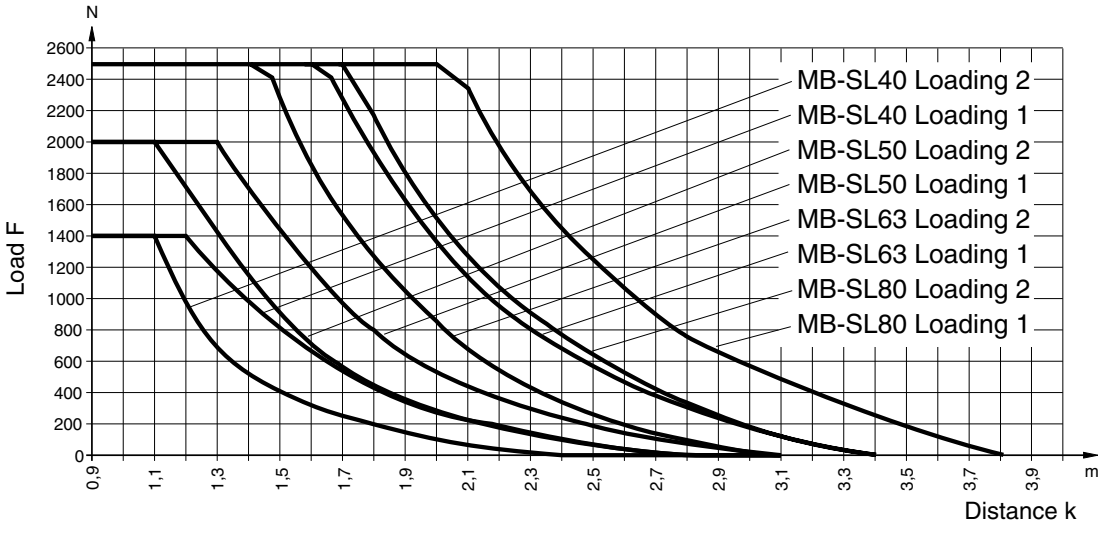
## Loading




## Permissible Unsupported Length MB-SL25, MB-SL32




## Permissible Unsupported Length MB-SL40, MB-SL50, MB-SL63 and MB-SL80



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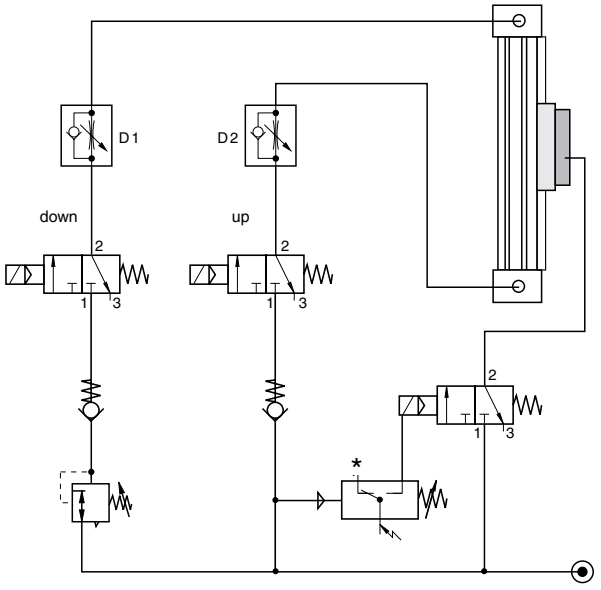
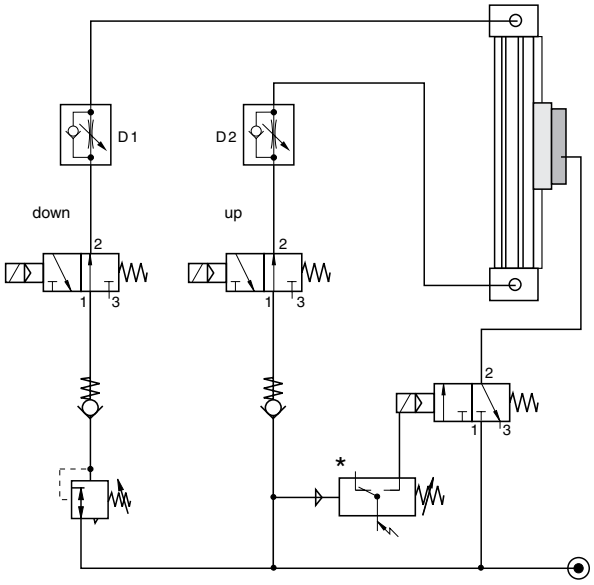
## Application Example - Vertical Application

Control of a cylinder with
3/2 way valves. Basic position – **exhausted**




Control of a cylinder with
3/2 way valves. Basic position – **pressurized**




### Control Examples

Under normal operating circumstances the pressure switch is closed and the air flows through the 3/2 way solenoid valves from port 1 to 2, thus lifting the brake from the rail (operating condition).

The brake is pressurized by means of a 3/2 way valve in combination with a pressure switch. When there is a pressure loss, the brake is actuated by the pressure switch.

When the air pressure is restored to both cylinder chambers, the brake is lifted and the linear drive can be moved again.

The speed regulating valves D1 and D2 control the speed of the linear drive, and have no influence on the brake. The two non-return valves give the system a higher stability.

The pressure regulating valve is used to compensate for the downward force in this vertical application.

**Please note:**

**Before the brake is lifted, make sure that both air chambers of the linear drive are pressurized.**

**Small diameter tubing, fittings and valves with a nominal diameter, and tubing that is too long all change the reaction time of the brake!**

***Tip:**

The pressure switch actuates the brake when the pressure drops below the set value.

For accessories, such as tubing and fittings, please refer to our separate catalogue.

**Required Components**

| Way Valves |
|---|
| Port size |
| M5, G1/8<br>G1/4, G1/2 |
| Pressure Regulating Valves |
| G1/8 - G3/8 |
| Pneumatic Accessories |
| P/E-Switch |
| Non-Return<br>Valves<br>G1/8 - G3/8 |
| Screw-in<br>Speed Regulating<br>Valves<br>M5 - G1/4 |

Contact factory for literature on the above valves/accessories



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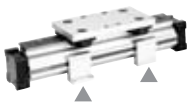
**Overview**

| Mounting Type | Type | Type – OSP Guides: SLIDELINE PROLINE MULTIBRAKE 16 [1] | 25 | 32 | 40 | 50 | 63 [1] | 80 [1] | POWERSLIDE 16/25 | 25/25 | 25/35 | 25/44 | 32/35 | 32/44 | 40/44 | 40/60 | 50/60 | 50/76 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End cap mounting  | Type A1 | X | | | | | | | X | | | | | | | | | |
| | Type A2 | O | O | O | | | | | | | | | | | | | | |
| | Type A3 | | | | | | | | | O | O | | O | | | | | |
| End cap mounting, reinforced  | Type B1 | | X | X | | | | | | X | X | X | X | X | | | | |
| | Type B3 | | | | | | | | O | | | | | | | | | |
| | Type B4 | | | | | | | | | | | O | | O | | | | |
| | Type B5 | | | | | | | | | | | | | | | | | |
| End cap mounting  | Type C1 | | | | X | X | X | X | | | | | | | X | X | X | X |
| | Type C2 | | | | O | O | | | | | | | | | | | | |
| | Type C3 | | | | | | O | O | | | | | | | O | | O | |
| | Type C4 | | | | | | | | | | | | | | | O | | O |
| Mid-Section support, small | Type D1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Mid-Section support, wide  | Type E1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Type E2 | O | O | O | O | O | | | | | | | | | | | | |
| | Type E3 | | | | | | O | O | O | O | O | | O | | O | | O | |
| | Type E4 | | | | | | | | | | | O | | O | | O | | O |
| | Type E5 | | | | | | | | | | | | | | | | | |

X = carriage mounted in top (12 o'clock position)

O = carriage mounted in lateral (3 or 9 o'clock position)

= available components

1) = not available for all sizes

# Linear Drive Accessories

## Mountings for Linear Drives fitted with OSP-Guides

B

OSP
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**For Linear-drives**
- **Series OSP-P**



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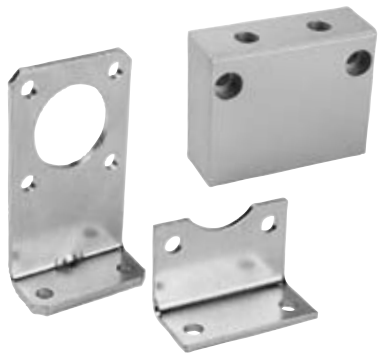
# End Cap Mountings

Four internal screw threads are located in the end faces of all OSP actuators for mounting the drive unit. End cap mountings may be secured across any two adjacent screws.

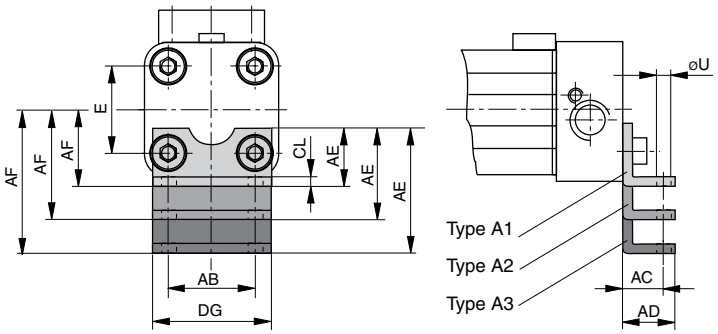
**Material:** Series OSP-16, 25, 32:
Galvanized steel
Series OSP-40,50, 63, 80:
Anodized aluminum

The mountings are supplied in pairs.

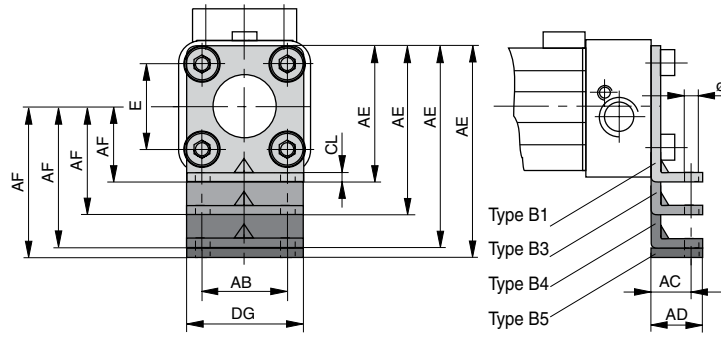


**B**

**Series OSP-P16, 25, 32: Type A**



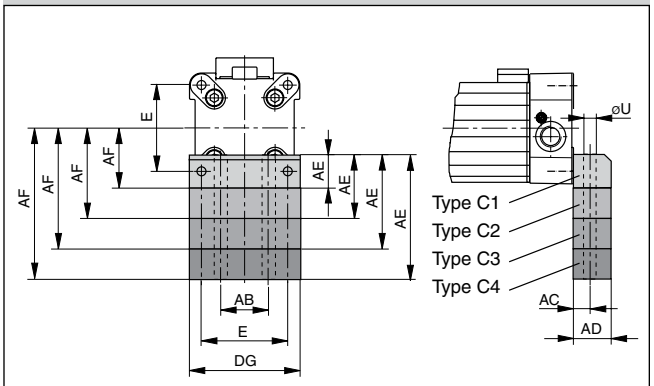

**Series OSP-P16, 25, 32: Type B**




**Dimension Table (mm)**
**– Dimensions AE and AF** (Dependent on the mounting type)

| Mount. type | Dimensions AE for size | | | | | | | AF for size | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 25 | 32 | 40 | 50 | 63 | 80 | 16 | 25 | 32 | 40 | 50 | 63 | 80 |
| A1 | 12.5 | 18 | 20 | – | – | – | – | 15 | 22 | 30 | – | – | – | – |
| A2 | 27.5 | 33 | 34 | – | – | – | – | 30 | 37 | 44 | – | – | – | – |
| A3 | – | 45 | 42 | – | – | – | – | – | 49 | 52 | – | – | – | – |
| B1 | – | 42 | 55 | – | – | – | – | – | 22 | 30 | – | – | – | – |
| B3 | 55 | – | – | – | – | – | – | 42 | – | – | – | – | – | – |
| B4 | – | 80 | 85 | – | – | – | – | – | 60 | 60 | – | – | – | – |
| B5 | – | – | 90 | – | – | – | – | – | – | 65 | – | – | – | – |
| C1 | – | – | – | 24 | 30 | 40 | 50 | – | – | – | 38 | 48 | 57 | 72 |
| C2 | – | – | – | 37 | 39 | – | – | – | – | – | 51 | 57 | – | – |
| C3 | – | – | – | 46 | 54 | 76 | 88 | – | – | – | 60 | 72 | 93 | 110 |
| C4 | – | – | – | 56 | 77 | – | – | – | – | – | 70 | 95 | – | – |

**Series OSP-P40, 50, 63, 80: Type C**




**Dimension Table (mm)**

| Series | E | øU | AB | AC | AD | CL | DG |
|---|---|---|---|---|---|---|---|
| **OSP-P16** | 18 | 3.6 | 18 | 10 | 14 | 1.6 | 26 |
| **OSP-P25** | 27 | 5.8 | 27 | 16 | 22 | 2.5 | 39 |
| **OSP-P32** | 36 | 6.6 | 36 | 18 | 26 | 3 | 50 |
| **OSP-P40** | 54 | 9 | 30 | 12.5 | 24 | - | 68 |
| **OSP-P50** | 70 | 9 | 40 | 12.5 | 24 | - | 86 |
| **OSP-P63** | 78 | 11 | 48 | 15 | 30 | - | 104 |
| **OSP-P80** | 96 | 14 | 60 | 17.5 | 35 | - | 130 |



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# Mid-Section Support

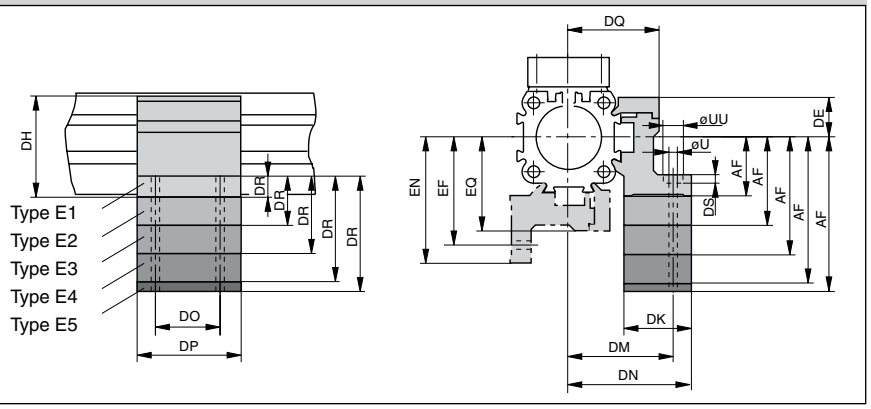
Information regarding type E1 and D1:

Mounting of the Mid-Section supports is also possible on the lower side of the drive. In this case, please note the new center line dimensions.

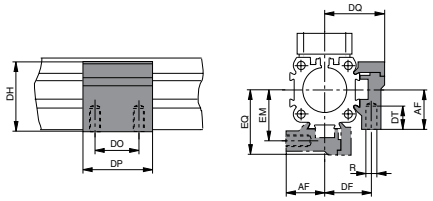
Stainless steel version on request.

B

**Series OSP-P16 to 80: Type E**
(Mounting from above / below using a cap screw)




**Series OSP-P16 to 80: Type D1**
(Mounting from below with thread screw)




**Dimension Table (mm)**
**– Dimensions AF and DR** (Dependent on the mounting type)

| Mount. type | Dimensions DR for size | | | | | | | Dimensions AF for size | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16 | 25 | 32 | 40 | 50 | 63 | 80 | 16 | 25 | 32 | 40 | 50 | 63 | 80 |
| D1 | – | – | – | – | – | – | – | 15 | 22 | 30 | 38 | 48 | 57 | 72 |
| E1 | 6 | 8 | 10 | 10 | 10 | 12 | 15 | 15 | 22 | 30 | 38 | 48 | 57 | 72 |
| E2 | 21 | 23 | 24 | 23 | 19 | – | – | 30 | 37 | 44 | 51 | 57 | – | – |
| E3 | 33 | 35 | 32 | 32 | 34 | 48 | 53 | 42 | 49 | 52 | 60 | 72 | 93 | 110 |
| E4 | – | 46 | 40 | 42 | 57 | – | – | – | 60 | 60 | 70 | 95 | – | – |
| E5 | – | – | 45 | – | – | – | – | – | – | 65 | – | – | – | – |

**Dimension Table (mm)**

| Series | R | U | UU | DE | DF | DH | DK | DM | DN | DO | DP | DQ | DS | DT | EF | EM | EN | EQ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **OSP-P16** | M3 | 3.4 | 6 | 14.2 | 20 | 29.2 | 24 | 32 | 36.4 | 18 | 30 | 27 | 3.4 | 6.5 | 32 | 20 | 36.4 | 27 |
| **OSP-P25** | M5 | 5.5 | 10 | 16 | 27 | 38 | 26 | 40 | 47.5 | 36 | 50 | 34.5 | 5.7 | 10 | 41.5 | 28.5 | 49 | 36 |
| **OSP-P32** | M5 | 5.5 | 10 | 16 | 33 | 46 | 27 | 46 | 54.5 | 36 | 50 | 40.5 | 5.7 | 10 | 48.5 | 35.5 | 57 | 43 |
| **OSP-P40** | M6 | 7 | – | 23 | 35 | 61 | 34 | 53 | 60 | 45 | 60 | 45 | – | 11 | 56 | 38 | 63 | 48 |
| **OSP-P50** | M6 | 7 | – | 23 | 40 | 71 | 34 | 59 | 67 | 45 | 60 | 52 | – | 11 | 64 | 45 | 72 | 57 |
| **OSP-P63** | M8 | 9 | – | 34 | 47.5 | 91 | 44 | 73 | 83 | 45 | 65 | 63 | – | 16 | 79 | 53.5 | 89 | 69 |
| **OSP-P80** | M10 | 11 | – | 39.5 | 60 | 111.5 | 63 | 97 | 112 | 55 | 80 | 81 | – | 25 | 103 | 66 | 118 | 87 |

**Ordering information for mountings Type A – Type B – Type C – Type D – Type E**

| Mounting type (versions) | Order No. size | | | | | | |
|---|---|---|---|---|---|---|---|
| | 16 | 25 | 32 | 40 | 50 | 63 | 80 |
| **A1 *)** | 20408 | 2010 | 3010 | – | – | – | – |
| **A2 *)** | 20464 | 2040 | 3040 | – | – | – | – |
| **A3 *)** | – | 2060 | 3060 | – | – | – | – |
| **B1 *)** | – | 20311 | 20313 | – | – | – | – |
| **B3 *)** | 20465 | – | – | – | – | – | – |
| **B4 *)** | – | 20312 | 20314 | – | – | – | – |
| **B5 *)** | – | – | 20976 | – | – | – | – |
| **C1 *)** | – | – | – | 4010 | 5010 | 6010 | 8010 |
| **C2 *)** | – | – | – | 20338 | 20349 | – | – |
| **C3 *)** | – | – | – | 20339 | 20350 | 20821 | 20822 |
| **C4 *)** | – | – | – | 20340 | 20351 | – | – |
| **D1** | 20434 | 20008 | 20157 | 20027 | 20162 | 20451 | 20480 |
| **E1** | 20435 | 20009 | 20158 | 20028 | 20163 | 20452 | 20482 |
| **E2** | 20436 | 20352 | 20355 | 20358 | 20361 | – | – |
| **E3** | 20437 | 20353 | 20356 | 20359 | 20362 | 20453 | 20819 |
| **E4** | – | 20354 | 20357 | 20360 | 20363 | – | – |
| **E5** | – | – | 20977 | – | – | – | – |

**(* Pair**



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# Ordering Instructions / Part Numbering System for OSP-P SLIDELINE Series

B

| 6 | | 7 | 8 | 9 | 10 | 11 | 12-16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OSPP | 25 | 0 | 2 | 0 | 0 | 0 | 01500 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |

**Bore**
16
25
32
40
50
63
80

**Piston Style**
**0** Standard
**1** Tandem
**S** Special

**Air Connections / Porting**
**0** Standard (position #2)
**1** end face (position #5)
**2** single end porting
**3** left stand (pos #2), right end face (pos#5)
**4** right stand (pos #2), left end face (pos #5)
**6** single end porting end face
**A** 3/2 Way valve VOE 24V = (25,32,40,50)
**B** 3/2 Way valve VOE 220V~/110V= (25,32,40,50)
**C** 3/2 Way valve VOE 48V=(25,32,40,50)
**E** 3/2 Way valve VOE 110V~ (25,32,40,50)
**S** Special

Note: Single End Porting on 16mm bore, then end caps cannot be rotated.

**Seals**
**0** Standard
**1** Viton
**S** Special

**Lubrication**
**0** Standard
**1** Slow Speed
**4** Food
**5** Clean Room
**S** Special

**Corrosion Resist, Hardware**
**0** Standard
**1** Stainless
**S** Special

**Stroke**
x x x x x

**End Cap Position**
**0** l+r 0° = in front (pos #2)
**1** l+r 90° = underneath (pos #3)
**2** l+r 180° = at the back (pos # 4)
**3** l+r 270° = same face as outerband (pos #2,1)
**4** l 90° = underneath; r 0° = in front (pos #3,2)
**5** l 180° = at the back; r 0° = in front (pos #4,2)
**6** l 270° = same face as outerband; r 0° = in front (pos #1,2)
**7** l 0° = in front; r 90° = underneath (pos #2, 3)
**8** l 180° = at the back; r 90° = underneath (pos #4,3)
**9** l 270° = same face as outerband; r 90° = underneath (pos #1,3)
**A** l 0° = in front; r 180° = at the back (pos #2,4)
**B** l 90° = underneath; r 180° = at the back (pos #3,4)
**C** l 270° = same face as outerband; r 180° = at the back (pos #1,4)
**D** l 0° = in front; r 270° = same face as outerband (pos #2,1)
**E** l 90° = underneath; r 270° = same face as outerband (pos #3,1)
**F** l 180° = at the back; r 270° = same face as outerband (pos #4,1)
**S** Special

**Cushioning / Stops**
**0** Standard
**S** Special

**Piston Mountings**
**0** none

**Guides / Brakes**
**2** SL Slideline
**3** SL Slideline with Activebrake
**4** SL Slideline with Multibrake (without sensors)

**add. Carriage**
**0** without
**2** Guide Carriage Slideline SL
**3** Guide Carriage SL-AB
**4** Guide Carriage SL-MB
**M** Guide Carriage SL-MB without Brake Function

**Dovetail Cover**
**0** Standard
**X** Without Cover Rail
**S** Special

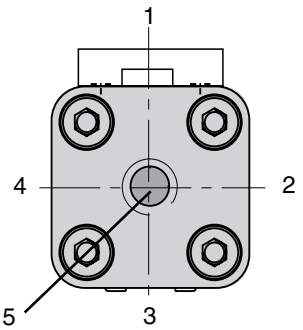
**End Cap Mounts**
**0** without
**1** A1 (16,25,32)
**2** A2 (16,25,32)
**3** A3 (25,32)
**4** B1 (25,32)
**6** B3 (16)
**7** B4 (25,32)
**8** B5 (32)
**9** C1 (40,50,63,80)
**A** C2 (40,50)
**B** C3 (40,50,63,80)
**C** C4 (40,50)

Note: Comes in pairs

**Version**

**Switches / Measuring System**
**0** none
**1** NO Reed-KL3045 Qty. 2
**2** NC Reed-KL3048 Qty. 2
**3** PNP KL3054+4041 Qty. 2
**4** NPN KL3060+4041 Qty. 2
**X** 21240 SFI 0,1mm
**Y** 21241 SFI 1mm
**Z** 4650 SFA
**S** Special

Note: 2 switches will be supplied. For different quantity, please order as a separate line item.




**Note: Position #2 is the standard location.**



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