

# Components

## IP66, UL Type 4X

### 60mm

Metal  
Limit switches

⊕ "N.C." contact with positive opening operation or element (subassembly, head, lever) suitable for positive opening operation.

**Warning! The positive opening operation of limit switch is only guaranteed if the elements noted with ⊕ are fitted.**



LS60M00B11



LSTE11

LSTE13



LSTE12

LSTE23



LSTE31

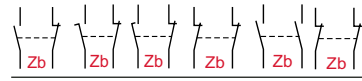
LSTE42



LSTE54

LSTE52

Contact blocks



B11 D11 C11 L02 L20 B02

Positive opening operation

Actuation speed max. m/s

Unit weight kg (1 pc)

Catalog number

List price

#### Bodies with contact block for rectilinear or angular motion heads

| Contact block | Positive opening operation | Actuation speed max. m/s | Unit weight kg (1 pc) | Catalog number | List price |
|---------------|----------------------------|--------------------------|-----------------------|----------------|------------|
| 1             | ⊕                          | —                        | 0.198                 | LS65M00B11     | \$ 30      |
| 1             | ⊕                          | —                        | 0.198                 | LS65M00D11     | 31         |
| 1             | ⊕                          | —                        | 0.198                 | LS65M00C11     | 32         |
| 1             | ⊕                          | —                        | 0.198                 | LS65M00L02     | 32         |
| 1             | ⊗                          | —                        | 0.198                 | LS65M00L20     | 32         |
| 1             | ⊕                          | —                        | 0.198                 | LS65M00B02     | 32         |

#### Rectilinear motion heads

##### To be actuated from end

| Actuator                              | Positive opening operation | Actuation speed max. m/s | Unit weight kg (1 pc) | Catalog number | List price |
|---------------------------------------|----------------------------|--------------------------|-----------------------|----------------|------------|
| Stainless steel plain plunger         | ⊕                          | 0.5                      | 0.077                 | LSTE11         | 14         |
| Stainless steel ball plunger          | ⊕                          | 0.5                      | 0.076                 | LSTE12         | 17         |
| Stainless steel lateral plain plunger | ⊕                          | 0.5                      | 0.093                 | LSTE21         | 17         |

##### To be actuated by 30° cam

| Actuator   | Positive opening operation | Actuation speed max. m/s | Unit weight kg (1 pc) | Catalog number | List price |
|--|----------------------------|--------------------------|-----------------------|----------------|------------|
| Stainless steel roller plunger                         | ⊕                          | 0.5                      | 0.084                 | LSTE13         | 20         |
| Stainless steel lateral plunger with vertical roller   | ⊕                          | 0.5                      | 0.098                 | LSTE22         | 21         |
| Stainless steel lateral plunger with horizontal roller | ⊕                          | 0.5                      | 0.098                 | LSTE23         | 21         |

##### To be actuated unidirectionally by 30° cam

| Actuator  | Positive opening operation | Actuation speed max. m/s | Unit weight kg (1 pc) | Catalog number | List price |
|---|----------------------------|--------------------------|-----------------------|----------------|------------|
| ∅ 22mm polyamide roller lever on stainless steel plunger          | ⊕                          | 1.5                      | 0.111                 | LSTE31         | 19         |
| ∅ 22mm stainless steel roller lever on stainless steel plunger    | ⊕                          | 1.5                      | 0.121                 | LSTE32         | 26         |
| ∅ 22mm steel ball-bearing roller lever on stainless steel plunger | ⊕                          | 1.5                      | 0.122                 | LSTE33         | 21         |

#### Angular motion heads with actuator

##### To be actuated by 30° cam

| Actuator   | Positive opening operation | Actuation speed max. m/s | Unit weight kg (1 pc) | Catalog number | List price |
|--|----------------------------|--------------------------|-----------------------|----------------|------------|
| ∅ 22mm polyamide roller lever ①                  | ⊕                          | 1.5                      | 0.134                 | LSTE41         | 26         |
| ∅ 22mm stainless steel roller lever ①            | ⊕                          | 1.5                      | 0.142                 | LSTE42         | 34         |
| ∅ 22mm steel ball-bearing roller lever ①         | ⊕                          | 1.5                      | 0.145                 | LSTE43         | 29         |
| ∅ 45mm rubber roller lever ①                     | ⊗                          | 1.5                      | 0.162                 | LSTE44         | 28         |
| ∅ 22mm adjustable polyamide roller lever ①       | ⊗                          | 1.5                      | 0.152                 | LSTE51         | 27         |
| ∅ 22mm adjustable stainless steel roller lever ① | ⊗                          | 1.5                      | 0.161                 | LSTE52         | 35         |
| ∅ 22mm steel ball-bearing roller lever ①         | ⊗                          | 1.5                      | 0.163                 | LSTE53         | 31         |
| ∅ 45mm adjustable rubber roller lever ①          | ⊗                          | 1.5                      | 0.168                 | LSTE54         | 29         |

① Free position adjustment of lever 9° by 9° over 360°.