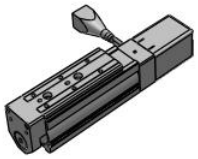

# Battery-less Absolute Encoder Type – LESYH

## LESYH16DEA-50C-R5CPF8

Datasheet

## General series information

- Body size: 8, 16 and 25 mm
- Stroke: 50 to 150 mm
- Speed: up to 400 mm/s
- Acceleration: up to 5000 mm/s$^2$
- Step motor type
- Encoder: battery-less.

## Standard specifications

| | |
|---|---|
| Size | 16 |
| Motor Mounting Position | D (In-line) |
| Lead | A (Size 8: 10 mm, Size 16: 12 mm, Size 25: 16 mm) |
| Stroke | 50 mm |
| Motor Option | C (w/Motor Cover) |
| Actuator Cable Length | R5 (5 m) |
| Controller | CPF (PROFINET® with STO Sub-Function) |
| Mounting | 8 (DIN Rail) |
| Communication Plug Connector, I/O Cable | None |
| General power supply | 24 VDC ±10% |
| Lead | 12 mm |
| Pushing speed | 20 - 30 mm/s |
| Positioning repeatability | ±0.01 mm |
| Impact/Vibration resistance | 50/20 m/s2 |
| Actuation type | Ball screw |
| Encoder | Battery-less absolute (4096 pulse/rotation) |
| Horizontal work load | 8 kg |

*Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.*



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| | |
|---|---|
| Vertical work load | 6 kg |
| Speed | 400 mm/s |
| Max. Acceleration/deceleration | 5000 mm/s2 |
| Operating humidity range | 90 % RH or less (No condensation) |
| Lost motion | 0.1 mm or less |
| Power Consumption | 40 W |
| Operating temperature range | 5 - 40 ºC |
| Pushing force | 91 - 182 N |
| Lock: Holding force | 78 N |
| Guide type | Linear guide (Circulating type) |
| Motor size | 42 |
| Standby power consumption when operating | 15 W |
| Max. instantaneous power consumption | 48 W |
| Lock unit type | Non-magnetizing lock |
| Lock unit power consumption | 5 W |
| Lock unit rated voltage | 24 VDC ±10% |

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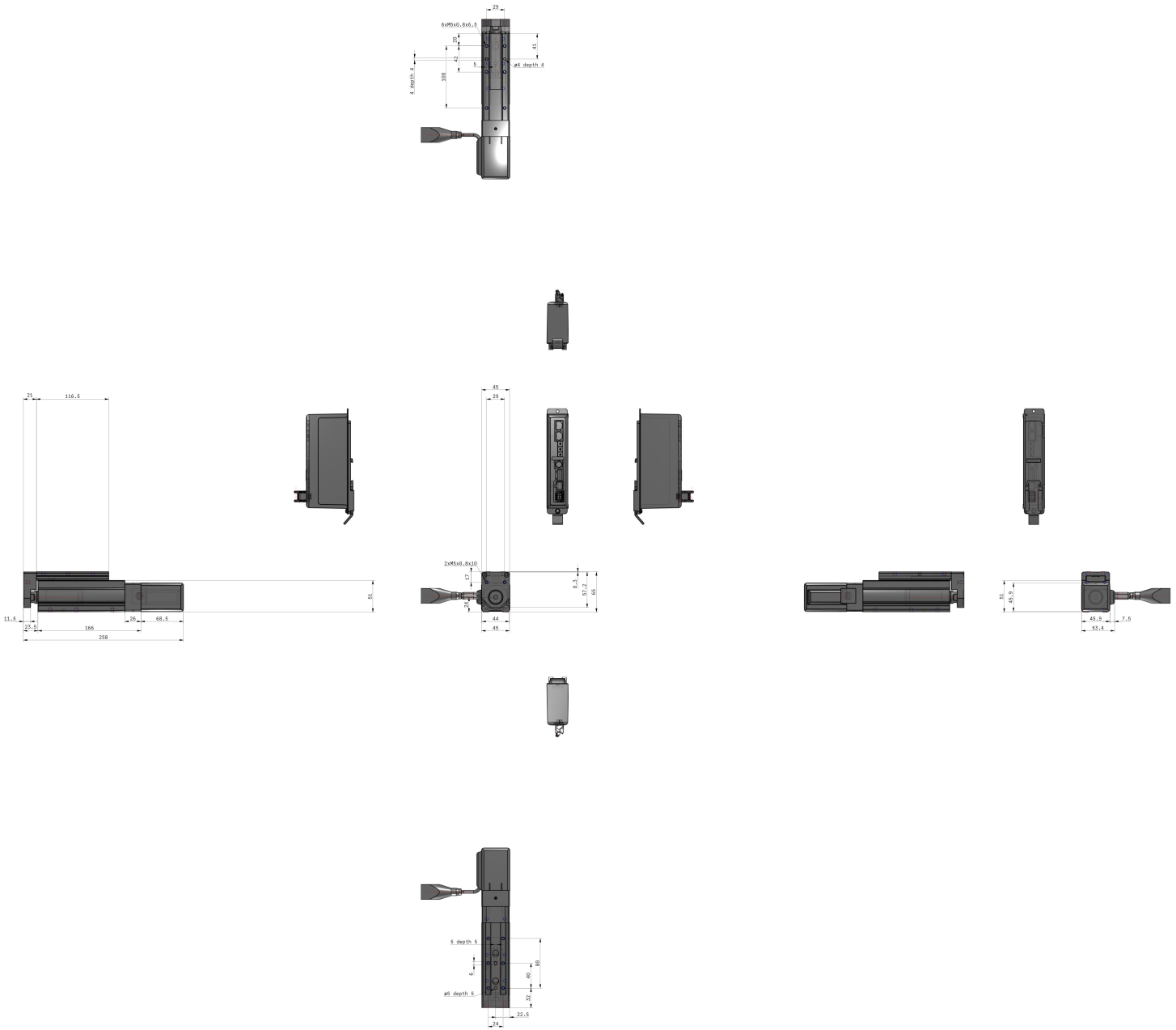
# Dimensions

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# Additional information

| | |
|---|---|
| Catalogue | LESYH-A_EU.pdf |
| Declaration of conformity | newDoC_LESxTF1Y281EN-A.pdf<br>newDoc_LES_stepDC-servoDC_EN-A.pdf |
| Installation manuals | IM_LESYHxE-G_StepDC_EN-A.pdf |
| Operation manuals | OM_LESH_stepDC_EN.pdf<br>OM_LESHY_stepDC-servoDC_EN |

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