



Piezo LEGS® Rotary Precision Stage



Key features

- $\pm 1^\circ$ angular travel
- 0.4 arcsec encoder resolution
- ± 0.4 arcsec repeatability
- 12°/s maximum speed
- 2 kg load capacity
- Direct drive without gear backlash

Product Description

The Piezo LEGS® Rotary Precision Stage provides precise limited-angle positioning without a conventional geared rotary transmission.

The LRS-RX-20-2-C-E40 offers $\pm 1^\circ$ angular travel, 0.4 arcsecond optical encoder resolution and ± 0.4 arcsecond positioning repeatability. A Piezo LEGS® linear actuator generates controlled rotary

movement through the stage mechanism, providing fine angular correction with reduced mechanical complexity.

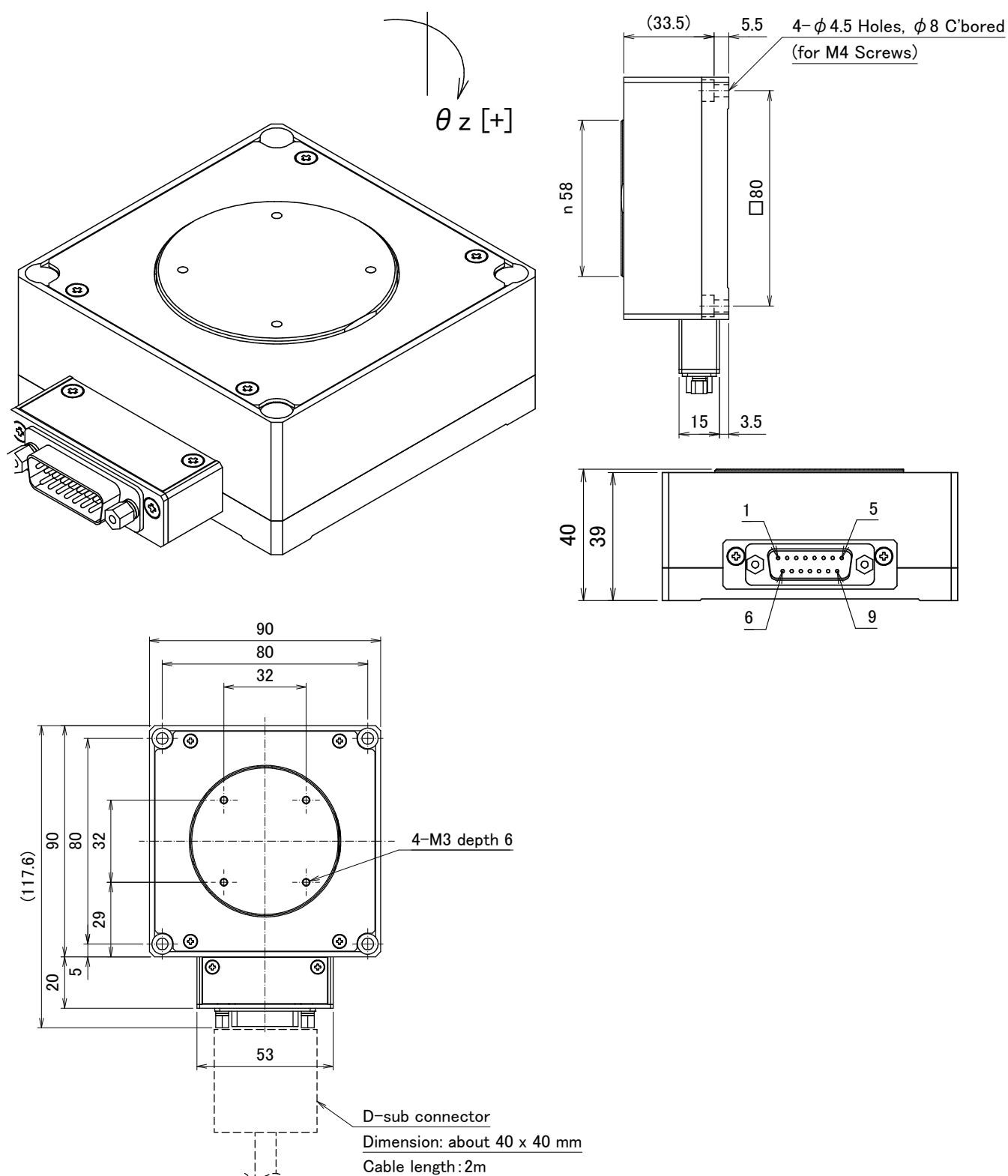
The direct-drive architecture avoids the backlash associated with geared transmissions and enables the selected angular position to be maintained without continuous motor power.

Application:

- Mirror and optical-element alignment
- Detector orientation
- Precision angular inspection
- Laser beam steering
- Calibration and metrology



External Dimensions LS1C90-02B-20



Technical specifications

Model	Motion range	Stall force	Load	Max Speed	Weight
LRS-RX-20-2-C-E40	$\pm 1^\circ$ (2° total)	20 N actuator stall force	2 kg	12°/s	700 g

Shared platform specification

Specification	Family specification
Encoder resolution	0.4 arcsec
Positioning repeatability	± 0.4 arcsec
Body material	Aluminium
Recommended controller	PM401
Stage cable	CKS-20, 2 m; inclusion quantity to be confirmed

