

PRODUCT DATASHEET

ES-EG-C00-S002-V003

Robotic End-Effector

Two Finger Parallel Electric Grippers | Electric Gripper Platform 02 Series

Product Overview

Robotic End-Effector with operating Voltage $24 \pm 10\%$ V DC, ingress Protection IP 40 and recommended Operating Environment 0-40 °C; relative humidity below 85%.

Key Specifications

PARAMETER	VALUE	UNIT
Operating Voltage	$24 \pm 10\%$	V DC
Ingress Protection	IP 40	
Recommended Operating Environment	0-40 °C; relative humidity below 85%	
Standards Compliance	CE, FCC, RoHS	
Driving Method	Rack and pinion + crossed-roller guide	
Unweighted Noise Level	< 50	dB

Technical Specifications

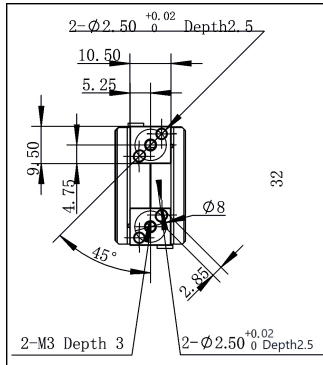
PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Operating Voltage	24 ± 10%	V DC
MECHANICAL		
Driving Method	Rack and pinion + crossed-roller guide	
ENVIRONMENTAL		
Recommended Operating Environment	0–40 °C; relative humidity below 85%	
Unweighted Noise Level	< 50	dB
Ingress Protection	IP 40	
COMPLIANCE		
Standards Compliance	CE, FCC, RoHS	

Dimensional & Integration Overview

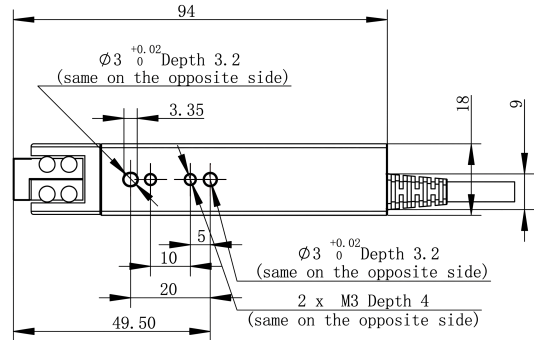
Mechanical Overview

PARAMETER	VALUE	UNIT
Driving Method	Rack and pinion + crossed-roller guide	

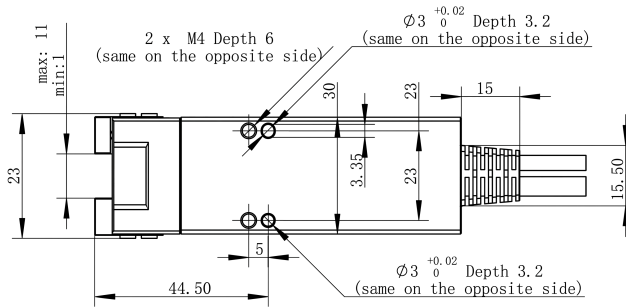
Dimensional Drawings



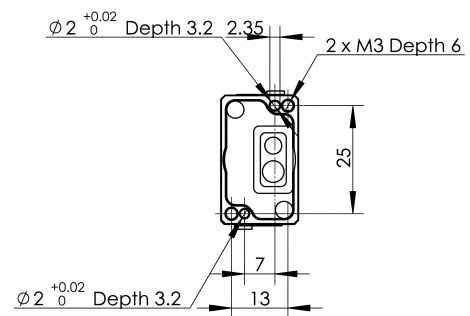
Mechanical View 1



Mechanical View 2



Mechanical View 3



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Top two diameter 2.50 holes with depth	2 × $\Phi 2.50 +0.02/0$, depth 2.5
	Upper hole horizontal locating dimension	10.50
	Upper hole horizontal spacing	5.25
	Vertical locating dimension	9.50
	Hole vertical spacing	4.75
	Overall height	32
	Circular hole diameter	$\Phi 8$
	Inclination angle	45 degrees
	Angled locating dimension	2.85
	Two M3 threaded holes depth	2 × M3, depth 3
	Bottom two diameter 2.50 holes with depth	2 × $\Phi 2.50 +0.02/0$, depth 2.5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Overall body length	94 mm
	Diameter 3 hole with unilateral tolerance and depth, upper callout	$\Phi 3 +0.02/0$, depth 3.2 mm, same on opposite side
	Hole center spacing	3.35 mm
	Local mounting interface dimension	7 mm
	Local hole spacing dimension	5 mm
	Diameter 3 hole with unilateral tolerance and depth, lower callout	$\Phi 3 +0.02/0$, depth 3.2 mm, same on opposite side
	Hole center location dimension	10 mm
	Hole group location dimension	20 mm
	Threaded hole specification	2 x M3 threaded holes, depth 4 mm, same on opposite side

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Upper locating hole diameter and depth	Diameter 3 mm, tolerance +0.02/0, depth 3.2 mm
	M4 threaded hole quantity and depth	2 × M4 threaded holes, depth 6 mm
	Maximum envelope height	Maximum 11 mm
	Minimum clearance or step height	Minimum 1 mm
	Upper body height locating dimension	23 mm
	Main body height	30 mm
	Hole offset dimension	3.35 mm
	Left side height dimension	23 mm
	Hole center distance	5 mm
	Lower locating hole diameter and depth	Diameter 3 mm, tolerance +0.02/0, depth 3.2 mm
Mechanical View 4	Upper locating hole diameter and depth	Diameter 2 mm, tolerance +0.02/0 mm, depth 3.2 mm
	Hole spacing or offset dimension	2.35 mm
	Threaded hole specification and depth	2 x M3 threaded holes, depth 6 mm
	Vertical mounting dimension	25 mm
	Horizontal hole spacing or mounting width	7 mm
	Bottom overall width or center distance	13 mm
	Lower locating hole diameter and depth	Diameter 2 mm, tolerance +0.02/0 mm, depth 3.2 mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.