

PRODUCT DATASHEET

ES-EG-C00-S002-V002

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, communication Interface Standard: Modbus RTU (RS485), Digital I/O; optional: TCP/IP, USB 2.0, CAN 2.0A, PROFINET, EtherCAT and ingress Protection IP 40.

Key Specifications

PARAMETER	VALUE	UNIT
Operating Voltage	$24 \pm 10\%$	V DC
Communication Interface	Standard: Modbus RTU (RS485), Digital I/O; optional: TCP/IP, USB 2.0, CAN 2.0A, PROFINET, EtherCAT	
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

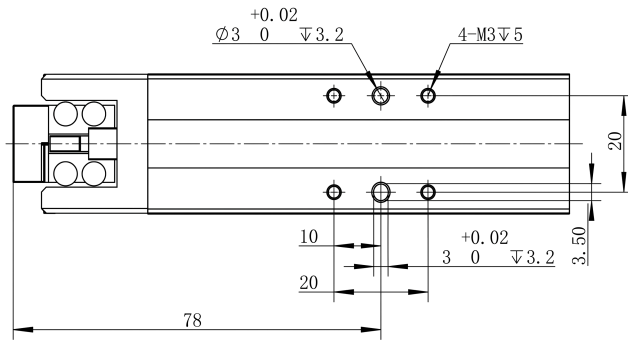
PARAMETER	SPECIFICATION	UNIT	NOTES
ELECTRICAL			
Operating Voltage	24 ± 10%	V DC	
Communication Interface	Modbus RTU		Connector: RS-485; Function: Standard
	Digital I/O		Function: Standard
	TCP/IP		Function: Optional
	USB 2.0		Function: Optional
	CAN 2.0A		Function: Optional
	PROFINET		Function: Optional
	EtherCAT		Function: Optional
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

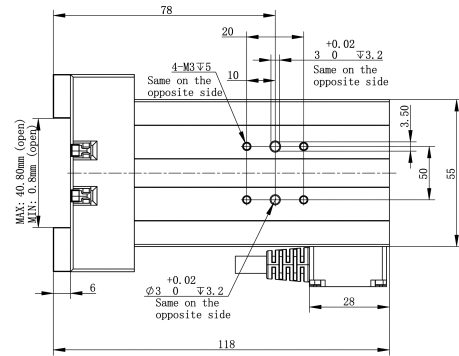
Mechanical Overview

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

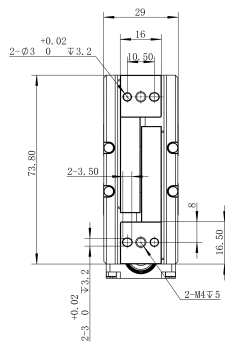
Dimensional Drawings



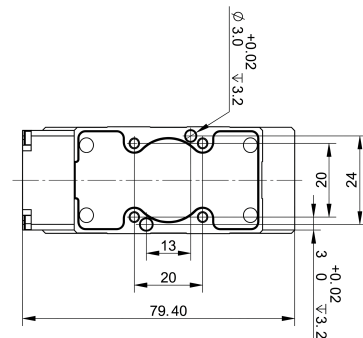
Mechanical View 1



Mechanical View 2



Mechanical View 3



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Upper row hole diameter with tolerance and surface finish	Diameter 3 mm, tolerance +0.02/0, surface finish/depth callout 3.2
	Threaded hole quantity and specification	4 × M3 threaded holes, depth/surface callout 5
	Vertical hole spacing	20 mm vertical spacing
	Lower row vertical offset	3.50 mm offset
	Horizontal hole spacing 1	10 mm horizontal spacing
	Lower row hole diameter with tolerance and surface finish	Diameter 3 mm, tolerance +0.02/0, surface finish/depth callout 3.2
	Horizontal hole spacing 2	20 mm horizontal spacing
	Longitudinal locating dimension	78 mm longitudinal dimension
Mechanical View 2	Upper mounting segment length	78 mm
	Hole column center spacing	20 mm
	Hole column offset distance	10 mm
	Threaded hole specification	4x M3 threaded holes, depth 5 mm
	Dowel/pin hole specification	Diameter 3 mm, tolerance +0.02/0, depth 3.2 mm
	Right side height offset	3.50 mm
	Maximum dimension in open state	Max 40.80 mm when open
	Minimum clearance	Min 0.8 mm
	Main body width	50 mm
	Overall height	55 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Top width	29 mm
	Upper mounting hole center distance	16 mm
	Upper locating hole diameter and tolerance	2 holes, diameter 3 mm, tolerance +0.02/0 mm
	Upper hole surface roughness	Surface roughness Ra 3.2
	Upper small hole center distance	10.50 mm
	Main body height	73.80 mm
	Side slot or hole offset	2 features at 3.50 mm offset
	Right side step offset	8 mm
	Right lower height	16.50 mm
	Lower threaded holes	2 x M4 threaded holes, depth 5 mm
	Lower locating hole diameter and tolerance	2 holes, diameter 3 mm, tolerance +0.02/0 mm
	Lower hole surface roughness	Surface roughness Ra 3.2

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Upper hole diameter with tolerance	Diameter 3 mm, tolerance +0.02/0
	Upper hole surface texture	Surface texture value 3.2
	Right-side overall height	24
	Right-side internal height or spacing dimension	20
	Central horizontal spacing	13
	Central horizontal mounting spacing	20
	Lower hole diameter with tolerance	Diameter 3 mm, tolerance +0.02/0
	Lower hole surface texture	Surface texture value 3.2
	Bottom overall length	79.40

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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.