

PRODUCT DATASHEET

ES-EG-C00-S002-V008

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

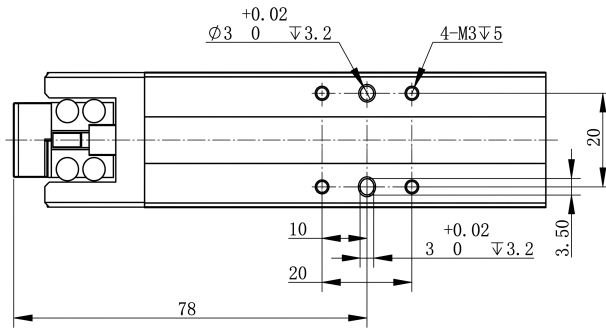
PARAMETER	SPECIFICATION	UNIT	NOTES
ELECTRICAL			
Operating Voltage	24 ± 10%	V DC	
Communication Interface	Modbus RTU		Connector: RS-485; Function: Standard
	Digital I/O		Function: Standard
	TCP/IP		Function: Optional
	USB 2.0		Function: Optional
	CAN 2.0A		Function: Optional
	PROFINET		Function: Optional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

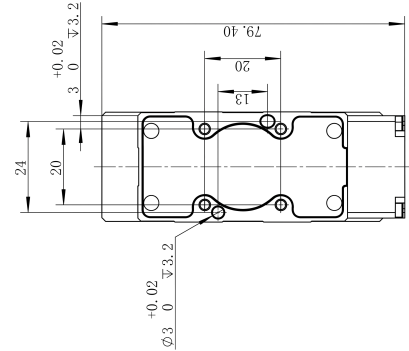
Mechanical Overview

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

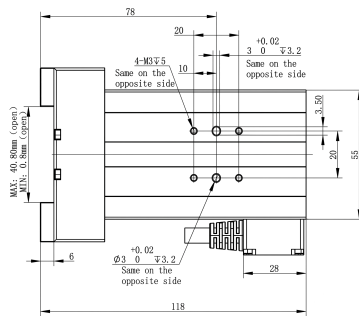
Dimensional Drawings



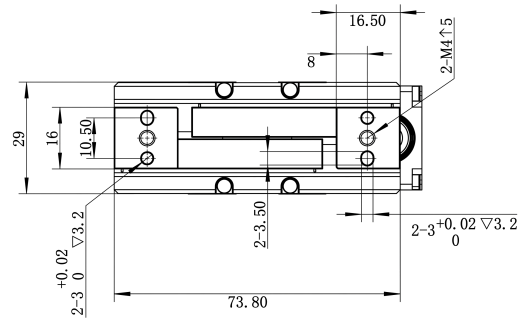
Mechanical View 1



Mechanical View 2



Mechanical View 3



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Upper row hole diameter and depth callout	Diameter 3 mm with tolerance +0.02/0, depth/countersink callout 3.2 mm
	Threaded mounting hole specification	4 × M3 threaded holes, depth/countersink callout 5 mm
	Right side vertical dimension	20 mm vertical dimension
	Lower row hole diameter and depth callout	Diameter 3 mm with tolerance +0.02/0, depth/countersink callout 3.2 mm
	Hole spacing dimension	10 mm spacing
	Step or slot vertical dimension	3.50 mm vertical dimension
	Hole spacing dimension	20 mm spacing
	Length dimension	78 mm length
Mechanical View 2	Hole diameter and tolerance, upper hole group	Diameter 3 mm, tolerance +0.02/0, surface roughness Ra 3.2
	Overall height	79.40 mm
	Upper hole spacing	20 mm
	Central hole spacing	13 mm
	Outer width in this view	24 mm
	Inner mounting width	20 mm
	Hole diameter and tolerance, lower hole group	Diameter 3 mm, tolerance +0.02/0, surface roughness Ra 3.2

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Upper horizontal length	78 mm
	Horizontal spacing between mounting hole columns	20 mm
	Upper mounting hole diameter tolerance and surface finish	Diameter 3 mm, tolerance +0.02/0, surface roughness 3.2
	Threaded hole specification	4 × M3 holes, depth/countersink indicator 5
	Same on opposite side note	Same feature exists on the opposite side
	Horizontal offset dimension	10 mm
	Local vertical spacing	3.50 mm
	Overall height	55 mm
	Vertical spacing between mounting hole rows	20 mm
	Lower mounting hole diameter tolerance and surface finish	Diameter 3 mm, tolerance +0.02/0, surface roughness 3.2
	Left end step width	6 mm
	Overall length	118 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Upper rectangular width	16.50 mm
	Threaded hole specification	2 × M4 thread, depth 5 mm
	Upper rectangular boss depth	8 mm
	Middle rectangular height	10.50 mm
	Total height	29 mm
	Lower rectangular height	16 mm
	Vertical hole spacing	2 holes, 3.50 mm spacing
	Bottom horizontal dimension tolerance	2-3 mm +0.02/0, surface finish $\nabla 3.2$
	Total length	73.80 mm
	Vertical hole diameter tolerance	$\Phi 2-3$ mm +0.02/0, surface finish $\nabla 3.2$

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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.