

Electric Grippers

SG 030 2-Finger

SG is a 2-finger electric gripper with serial interface that optimizes the sensitive handling of the various products and devices in the laboratory automation as well as a wide range of applications in the general industry.

Advantages

- Precise positioning of the gripper fingers
- Programmable gripping force and speed
- High positioning speed
- Simple integration in laboratory and process automation
- Grip actuation via embedded controller
- Easy cleaning
- IP30 protection class (IP68 optional)
- Additional accessories: connection cable, mounting interfaces, gripping fingers



SPECIFICATIONS

Model	Stroke per Jaw	Min. Cycle Time	Gripping Force per Jaw	Total Gripping Force	Speed	Recommended Workpiece Weight*	Position Accuracy	Repeatability	Weight
SG 030	15 mm 0.59 in	100 ms	30 N 6.74 lb	60 N 13.49 lb	150 mm/s	0.3 kg 0.66 lb	± 0.05 mm ± 0.002 in	± 0.01 mm ± 0.0004 in	0.214 kg 0.47 lb

* Recommended workpiece weight depends on the shape of the part, the material and friction of the contact surface and the acceleration of the motion.

Communication Interface **RX/TX (RS232 or RS485)**

Nominal Voltage **12 V DC**

Maximum Power Consumption **0.7 Amp**

Noise Emission (Sound Pressure) **≤ 40 dB(A) in any direction**

Recommended operating environment **-20 - +60°C (-4 - +104 °F)**

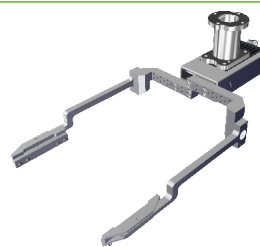
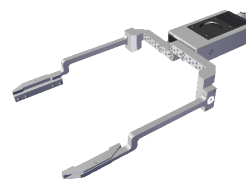
Example of configuration:



BASIC GRIPPER		
STEP 1	SG 030	
INTERFACE		
STEP 2	R [1/2]	[1] RS 232
		[2] RS 485
IP68 AND H ² O ² PROTECTION		
STEP 3	W	IP68 waterproof
	H	IP68 waterproof and H ² O ² resistant
CLEAN ROOM ISO 14644		
STEP 4	C [1/3]	[1] Clean room class ISO 6
		[2] Clean room class ISO 5
		[3] Clean room class ISO 1

Interface RS232 or RS485

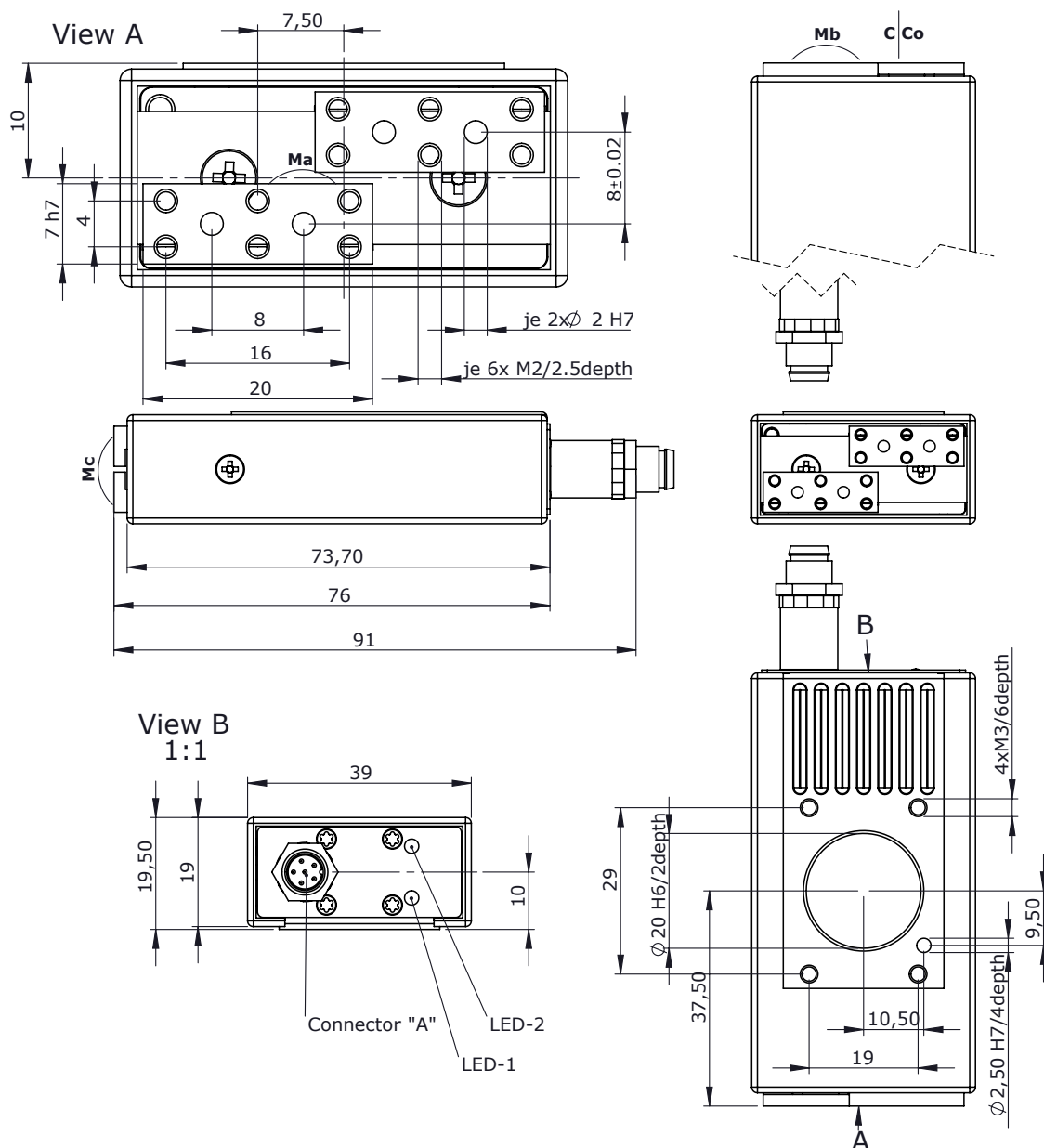
- 12 volts
- 30 mm gripping stroke
- 30 N closing force



PRODUCT INFORMATION



02.25_Rev.05



Moment Load

C	550 N (124 lb)
Co	960 N (216 lb)
Ma	1.28 Nm (11.33 in-lb)
Mb	1.28 Nm (11.33 in-lb)
Mc	1.74 Nm (15.40 in-lb)



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