

Description

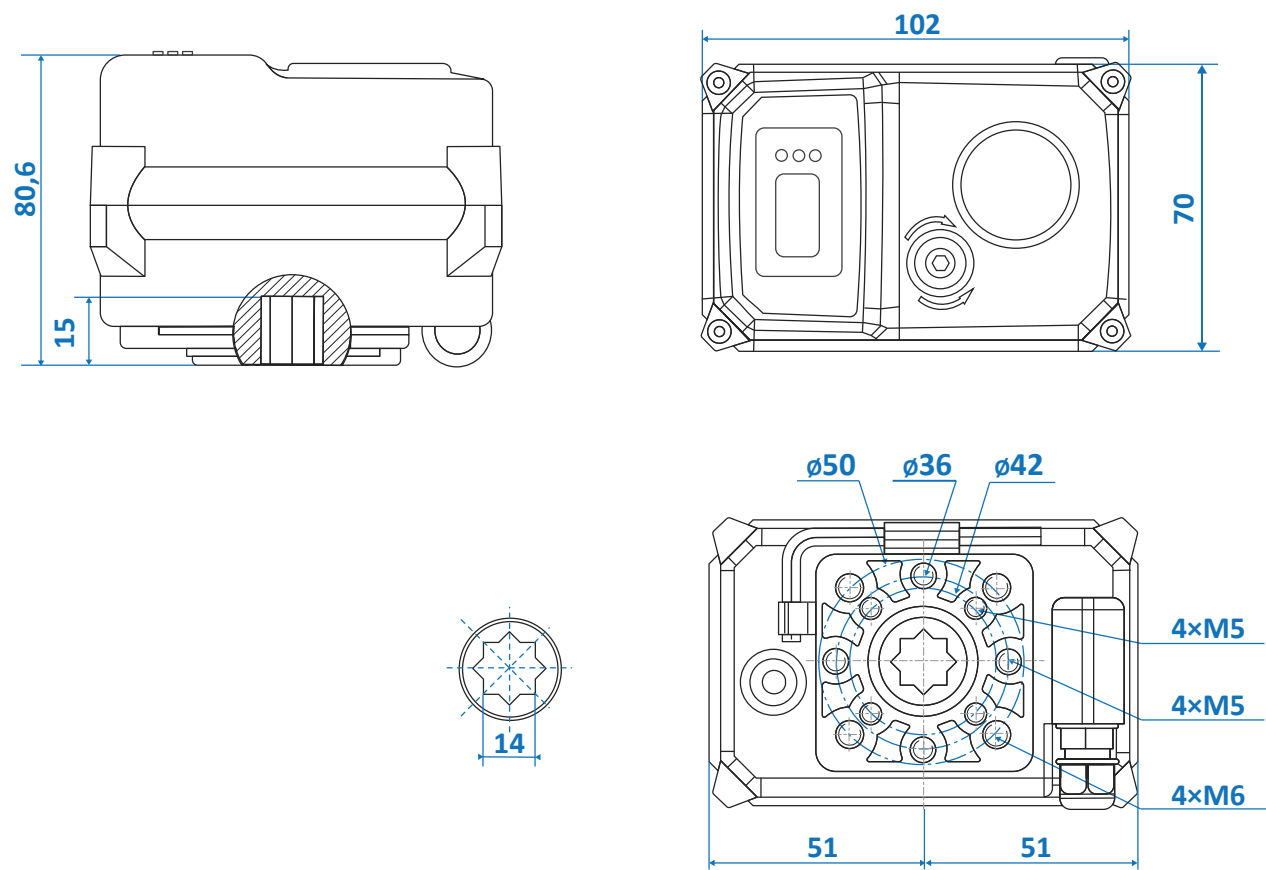
- » 20 Nm torque
- » Smart Positioner
- » 1.3" OLED display
- » User friendly push button control
- » Standardized interfaces (ISO 5211, DIN 3337)
- » Brushless high performance motor
- » Overload protection
- » Manual operation with allen key
- » Visual position indicator
- » Integrated heating resistor 3 W



Technical data

Electrical data	Rated voltage	230V AC/DC	24V AC/DC
	Voltage range	95-265V AC / 100-300V DC	20-26V AC / 22-30V DC
	Power consumption	max. 15 W	
	Peak current	0,08A @5ms @AC230V	0,75A @5ms @DC24V
	Fuse	1A	2A
Functional data	Rated torque	20 Nm	
	Nominal angle	90° ±2°	
	Max. angle	330° ±5°	
	Manual override	Currentless with allen key	
	Operating time (90°)	approx. 10 seconds	
	Operating mode	S3-75% (AC) S3-85% (DC) - loading ≤85% rated torque according to IEC60034-1-2017	
	Position indicator	Mechanical / Screen	
	Electricity safety level	Class I	Class III
	Protection class	IP67	
	Insulation resistance	100MΩ/1500VDC	100MΩ/500VDC
	Withstand voltage	1500VAC / 1 min	500VAC / 1 min
Operating conditions	Mounting position	Any mounting position	
	Temperature range	-20°C ... +60°C	
	Storage temperature	-40°C ... +80°C	
	Humidity	5 ... 95%, non-condensing	
	Shock resistance	≤5g	
	Vibration	10 ... 55 Hz/ 1,5mm double amplitude	

Dimension drawing



Ø Stem connection	Depth stem connection	ISO 5211	Weight
14 mm	15 mm	F03/F05 F04 - 45° offset	0,62kg

Materials

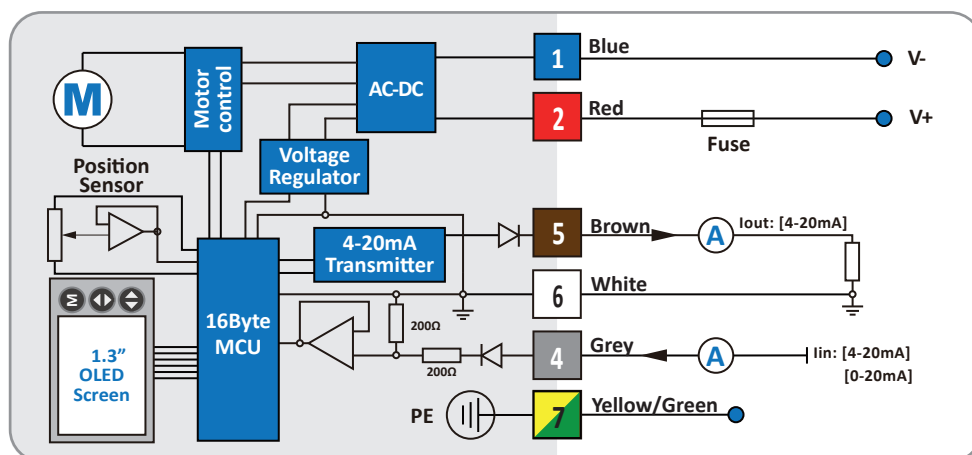
	<table><tr><td>1</td><td>Body</td><td>Heatproof ABS</td></tr><tr><td>2</td><td>Screws</td><td>304</td></tr><tr><td>3</td><td>Manual shaft</td><td>304</td></tr><tr><td>4</td><td>Oil seal</td><td>NBR</td></tr><tr><td>5</td><td>Label</td><td>PVC</td></tr></table>	1	Body	Heatproof ABS	2	Screws	304	3	Manual shaft	304	4	Oil seal	NBR	5	Label	PVC	<table><tr><td>6</td><td>Wrench fixation</td><td>Heatproof ABS</td></tr><tr><td>7</td><td>Hexagon wrench</td><td>Tool steel</td></tr><tr><td>8</td><td>Waterproof cable connector</td><td>Polyamide</td></tr><tr><td>9</td><td>Lid seal</td><td>NBR</td></tr></table>	6	Wrench fixation	Heatproof ABS	7	Hexagon wrench	Tool steel	8	Waterproof cable connector	Polyamide	9	Lid seal	NBR
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Type code

ESA	TCR	02	T		030405	S	14	H	01
Housing Variant		Size/ Nominal torque		Version		Special function		ISO interfaces	
Stem connection		Stem connection dimension		Options		Supply voltage			
				00: Connection via terminal strip		L: 20 ... 26V AC / 22 ... 30V DC			
				01: with attached plug and mating plug for soldering		H: 95 ... 265V AC / 100 ... 300V DC			
				02-xm: with attached cable end with length „x“ in meters					

Electric connection

Wiring diagram 4-20mA/0-20mA



Connector pin assignment

