DRIVECOD
Positioning unit

Series	RD1A

CE | RoHS

Modbus | PROFIBUS | CANopen

- Integrated positioning unit
- High performance brushless motor
- RS232 service interface for easy setup
- Real absolute multi turn encoder
- Additional jog +/- buttons for easy calibration

RD1A

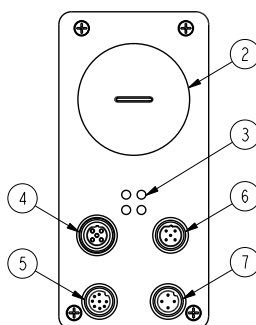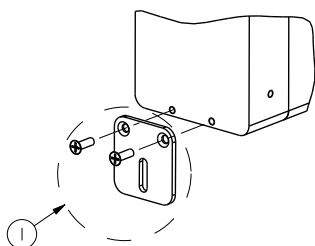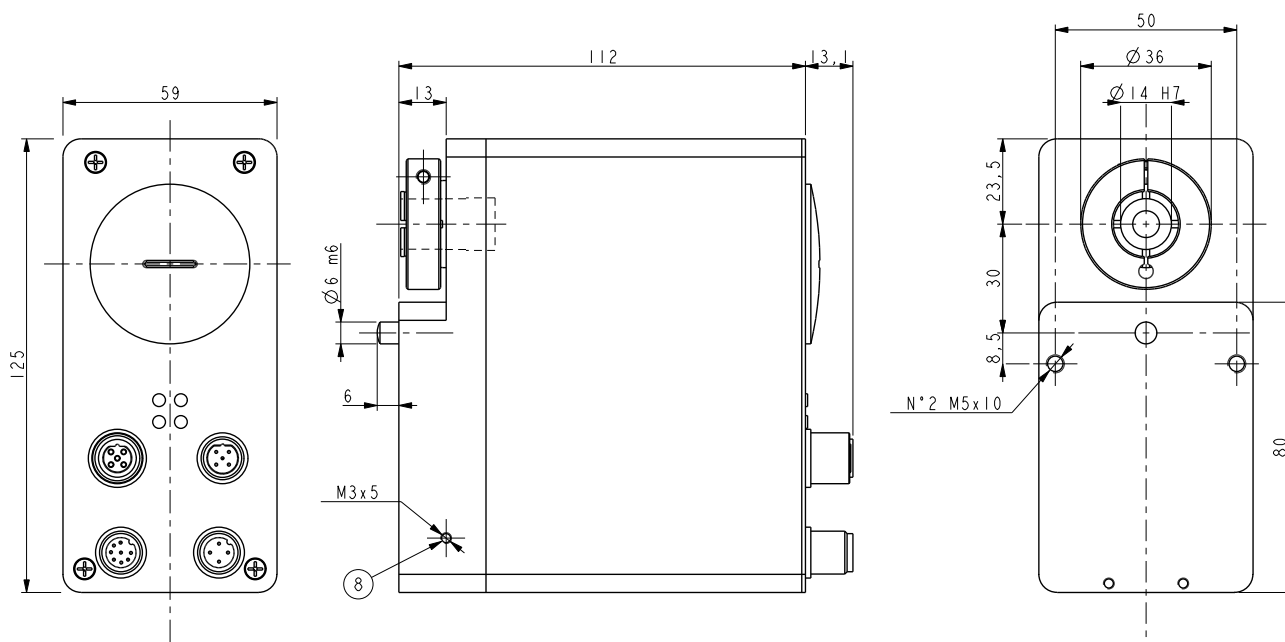| ENVIRONMENTAL SPECIFICATIONS	
Operating temperature range:	0°C +60°C (32°F +140°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H. without condensation)
Protection:	IP54

MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Shaft hollow:	Ø 14 mm
Shaft loading (axial and radial):	100 N, 200 N
Positioning accuracy:	± 0,9°
Electrical connections:	M12 connectors
Duty cycle:	20% ED
Torque and shaft rotational speed:	5 Nm @ 60 rpm (T48) 2,5 Nm @ 120 rpm (T24) 1,2 Nm @ 240 rpm (T12)
Starting torque:	T48: 12 Nm T24: 6 Nm T12: 3 Nm
Weight:	~ 1,8 kg (63,5 oz)

ELECTRICAL SPECIFICATIONS	
Resolution:	1024 inf./rev. x 1024 rev.
Power supply:	+24Vdc ± 10%
Power (motor):	31 W
Service interface:	RS232 (except Modbus RTU RS485)
Bus Interface:	Profibus-DP, CANopen, Modbus RTU (RS485)

MATERIALS	
Flange:	non corroding, UNI EN AW-6082
Housing:	non corroding, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel non-magnetic, UNI EN 1.4305
Motor:	high performance brushless motor

Specifications subject to changes without prior notice

1	Fixing plate
2	Dip switch, Jog +/- button access
3	Diagnostic leds
4	M12 5 pin connector, BUS OUT
5	M12 8 pin plug, Service interface, I/Os
6	M12 5 pin plug, BUS IN
7	M12 4 pin plug, power supply
8	GND connection

RD1A

Order code

RD1A	–	X ⓐ	–	XXX ⓑ	–	XX ⓒ	–	XX ⓓ	–	X ⓔ

ⓐ **POWER SUPPLY**
P8 = 24Vdc ± 10%

ⓑ **TORQUE/SHAFT ROTATIONAL SPEED**
T48 = 5 Nm @ 60 rpm
T24 = 2,5 Nm @ 120 rpm
T12 = 1,2 Nm @ 240 rpm

ⓒ **INTERFACE**
CB = CANopen (DS301)
PB = Profibus-DP
MB = Modbus RTU (RS485)

ⓓ **ENCODER**
E2 = Absolute, 1024 inf./rev. x 1024 rev.

ⓔ **CONNECTIONS**
M = M12 connectors