DRIVECOD
Rotary actuator

Series RD1A

- 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

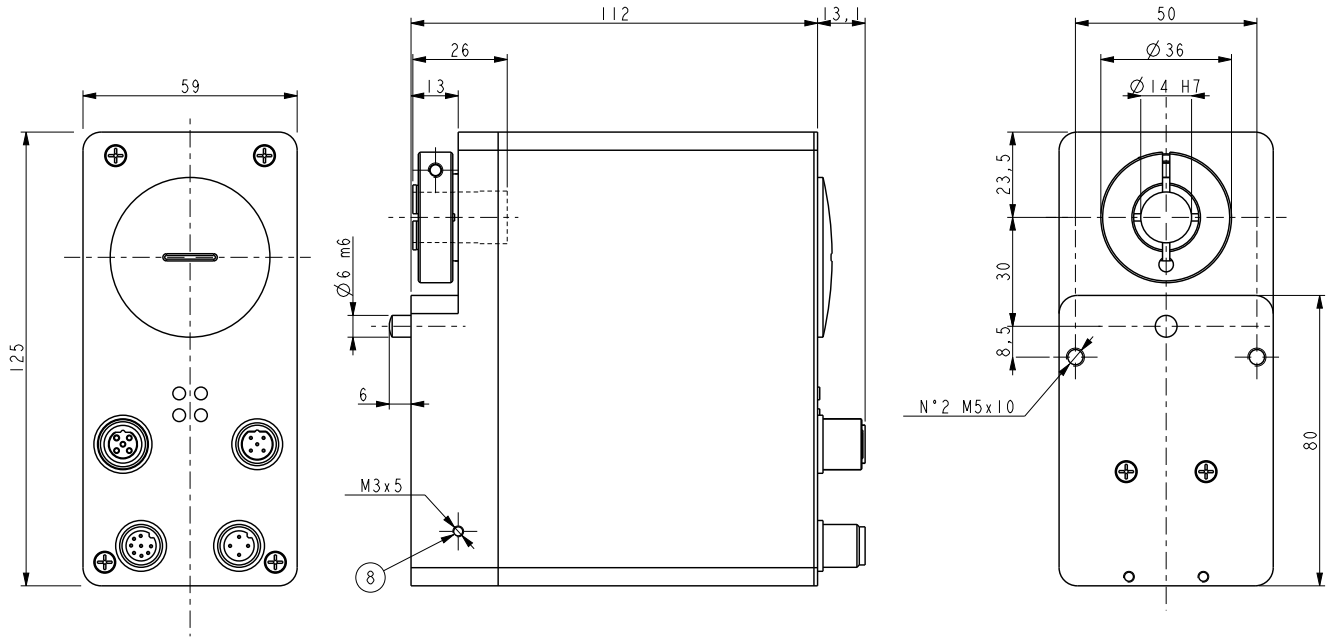
MECHANICAL SPECIFICATIONS	
Dimensions:	see drawing
Shaft hollow:	Ø 14 mm
Shaft loading (axial and radial):	100 N, 200 N
Positioning accuracy:	± 0,9°
Electrical connections:	M12 connectors
Duty cycle:	20% ED
Torque and shaft rotational speed:	5 Nm @ 60 rpm (T48) 2,5 Nm @ 120 rpm (T24) 1,2 Nm @ 240 rpm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

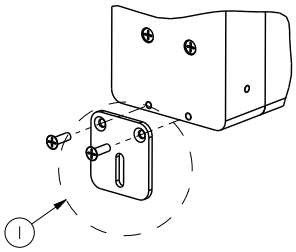
ELECTRICAL SPECIFICATIONS	
Resolution:	1024 inf./rev. x 1024 rev.
Power supply:	+24Vdc ± 10%
Power (motor):	31 W
Service interface:	RS232 (except Modbus RTU RS485)
Bus Interface:	Profibus-DP, CANopen, Modbus RTU (RS485)
Inputs:	3 x 24V
Output:	1 x o.c @ 100 mA

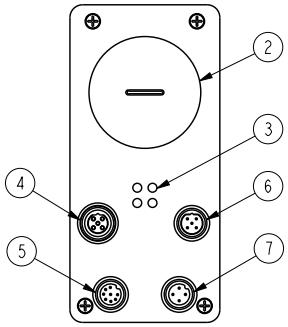
MATERIALS	
Flange:	non corroding, UNI EN AW-6082
Housing:	non corroding, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel non-magnetic, UNI EN 1.4305
Motor:	high performance brushless motor

ACCESSORIES	
CC-RD-PB:	Profibus mating connectors
EC-M12MP-LK-PB-5:	PB cordset M12 male conn., 5 m cable
EC-M12FP-LK-PB-5:	PB cordset M12 female conn., 5 m cable
EC-M12FC-S37-P3-5:	Cordset M12 power supply, 5 m cable
CC-RD-CB/MB:	CANopen/Modbus mating connectors
EC-M12MC-LK-CB-5:	CB/MB cordset M12 male conn., 5 m cable
EC-M12FC-LK-CB-5:	CB/MB cordset M12 female conn., 5 m cable
E-M12F8:	M12 8 pin conn. for RS232 & I/O's
E-M12FC:	M12 conn. for power supply
EXC-M12F8-LK-0,5-D9F-S51:	Connection cable RDxx to RS232 (PC)
EXC-USB4-S54-GN-2-M12MC-S54:	Connection cable RDxx Modbus to USB/PC

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

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