



- Heavy-duty rotary actuator for secondary axes
- Integrated drive, position controller & encoder
- Closed loop position control
- Starting torque from 24 to 30 Nm, rated torque from 10 to 15 Nm
- 20 bit real absolute encoder
- Oil bath gearbox for continuous operation



RD4

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:	∅ 20 mm
Shaft loading (axial and radial):	100 N, 200 N
Positioning accuracy:	± 0,9°
Electrical connections:	M12 connectors
Duty cycle:	50% ED
Torque and shaft rotational speed:	T32: 10 Nm @ 94 rpm / 6 Nm with continuous duty T47: 15 Nm @ 63 rpm / 8 Nm with continuous duty
Starting torque:	T32: 24 Nm T47: 30 Nm
Weight:	~ 2,8 kg (98,7 oz)

ELECTRICAL SPECIFICATIONS

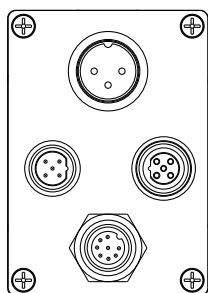
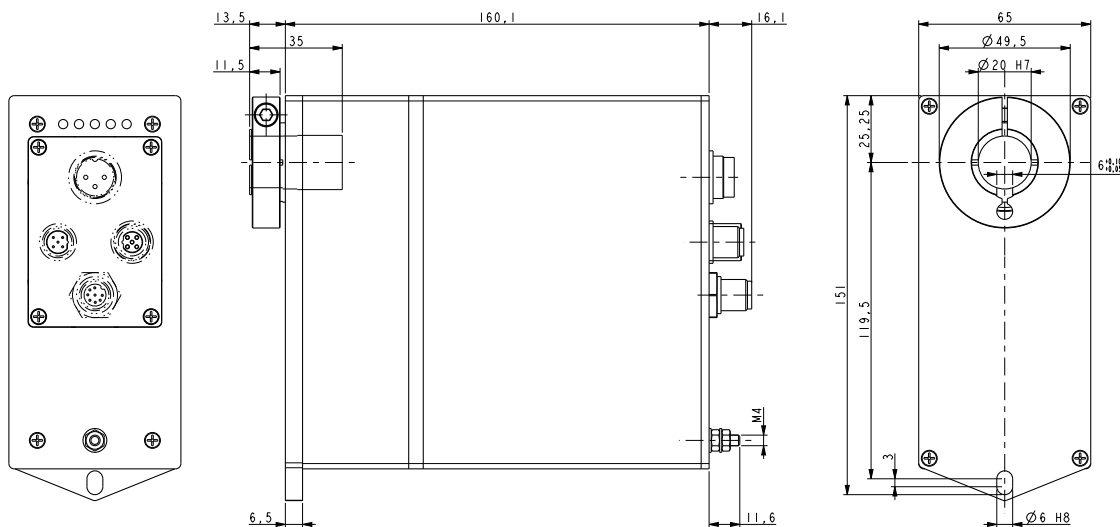
Resolution:	1024 inf./rev. x 1024 rev.
Power supply:	+24Vdc ± 10%
Power (motor):	100 W
Input current:	motor: 6,5 A max. control unit: 75 mA max.
Bus Interface:	Profibus-DP, CANopen (DS301), Modbus RTU (RS485)
Inputs:	3 x 24V
Output:	3 x o.c @ 100 mA

MATERIALS

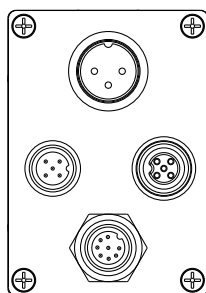
Flange:	non corroding, UNI EN AW-6082
Housing:	non corroding, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel non-magnetic, UNI EN 1.4305
Motor:	high performance brushless motor

ACCESSORIES

CC-RD4-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-M163F-S37-P3-5:	Cordset M16 power supply, 5 m cable
CC-RD4-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 I/O's
E-M163F:	M16 conn. for power supply
EXC-USB4-S54-GN-2-M12MC-S54:	Connection cable RDxx Modbus to USB/PC



Profibus



Canbus - Modbus

RD4

Order code

RD4	-	X a	-	XXX b	-	XX c	-	XX d	-	X e
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a POWER SUPPLY

P8 = 24Vdc ± 10%

b TORQUE/SHAFT ROTATIONAL SPEED

T32 = 10 Nm @ 94 rpm

T47 = 15 Nm @ 63 rpm

c INTERFACE

CB = CANopen (DS301)

PB = Profibus-DP

MB = Modbus RTU (RS485)

d ENCODER

E2 = Absolute, 1024 inf./rev. x 1024 rev.

e CONNECTIONS

M = M12 connectors