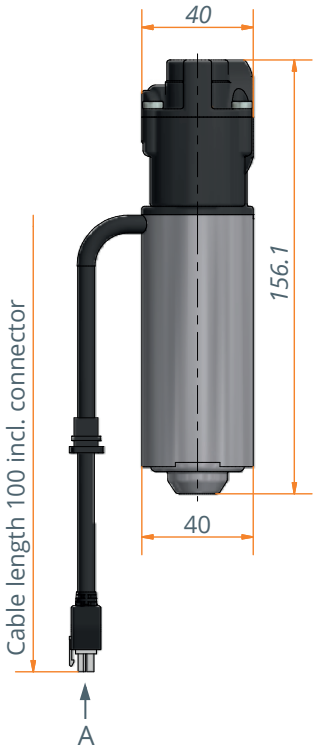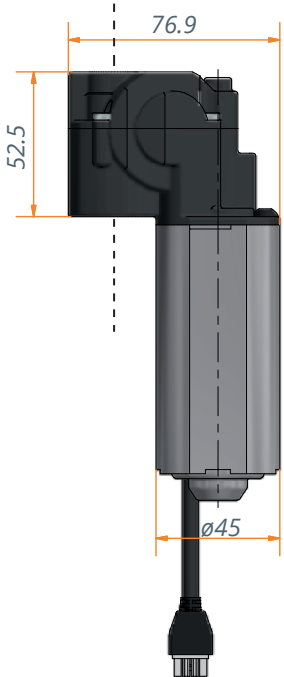# Motor drive 3121

Description

Powerful 24 V DC motor with 2-stage worm gear with through going hexagon socket on the output.
The motor cable with AMP plug and the integrated Hall sensors allow secure connection and exact positioning of the entire system.

Special features

- Two integrated Hall sensors for measurement of the revolutions and direction of rotation
- Through going hexagon socket in wrench widths 6 mm, 7 mm, 8 mm
- Good self-locking properties
- 220 mm motor cable with connector included
- Can be combined with most Ketterer spindle systems

Variant key

The variants are formed by the different wrench widths of the through going hexagon socket.
The design with fork head (see spindle drive 3120.00) is available upon request.
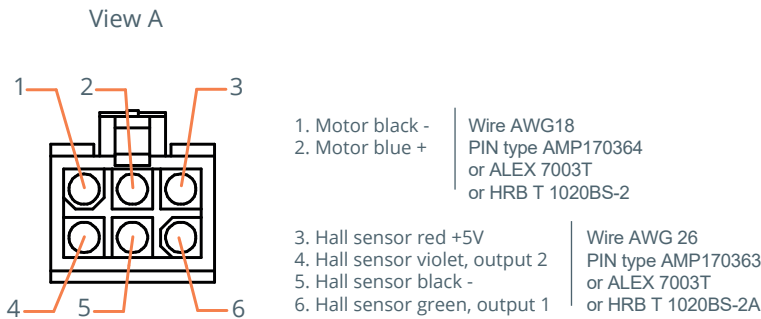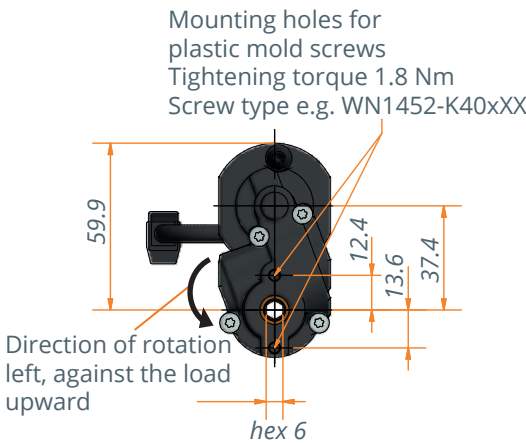
Cable length 100 incl. connector

Technical data

Model	3121.00-2002	3121.00-2007	3121.00-2008
Motor	DC motor 24 V	DC motor 24 V	DC motor 24 V
Sensor/Power supply	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A	Hall/5 V DC/0.3 A
Protection class	IP30	IP30	IP30
Idle running speed	150 rpm (24 V)	150 rpm (24 V)	150 rpm (24 V)
Duty cycle idle speed	20% (at 5 min.)	20% (at 5 min.)	20% (at 5 min.)
Rated torque*	3 Nm	3 Nm	3 Nm
Duty cycle nominal load*	20 s ON 240 s OFF	20 s ON 240 s OFF	20 s ON 240 s OFF
Short term peak torque (<1sec)	4.5 Nm	4.5 Nm	4.5 Nm
Input	hex 6 mm	hex 7 mm	hex 8 mm

* Load determined for service life of 10,000 double strokes

Pin assignment

View A

1. Motor black -   Wire AWG18
2. Motor blue +   PIN type AMP170364
                      or ALEX 7003T
                      or HRB T 1020BS-2

3. Hall sensor red +5V   Wire AWG 26
4. Hall sensor violet, output 2   PIN type AMP170363
5. Hall sensor black -   or ALEX 7003T
6. Hall sensor green, output 1   or HRB T 1020BS-2A

Installation position/mounting

Mounting holes for plastic mold screws
Tightening torque 1.8 Nm
Screw type e.g. WN1452-K40xXX

Direction of rotation left, against the load upward

hex 6

Technical notes

- Please note the correct installation position of the drive! The drive is correctly mounted when it turns counterclockwise under load (see installation position/mounting).
- The drive working range (nominal torque) is determined for a service life of 10,000 double strokes.

- Through the controller* the system is regulated such that the speed in the entire drive working range is kept as constant as possible.
- By using a controller with a short-circuit brake the holding torque position of the drive can be increased.

* In combination with LogicData control box Compact-3