

- IP65 hot-molded enclosure for wet environments.
- Absolute functionality (when using the SCE Battery Box).
- Battery level and encoder status feedback.



# ✗ INSTALL THE MAGNET

Before installing and using the SCE - Absolute encoder please read and understand the following guide, for any questions please contact your supplier.

#### 1. Preparations & precautions:

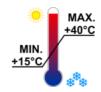
#### Degrease:

To obtain optimum adhesion, the bonding surfaces must be well unified, clean and dry.



Typical surface cleaning solvents are IPA/water mixture (rubbing alcohol) or heptane.

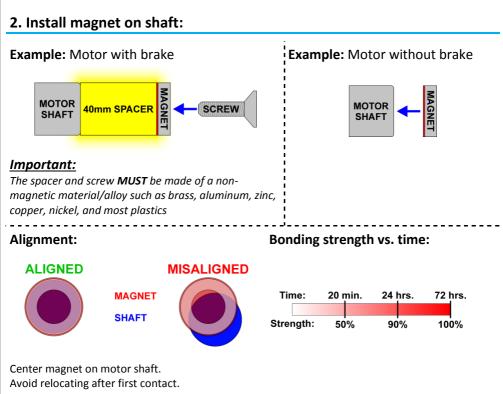
#### Temperature:



#### Important:

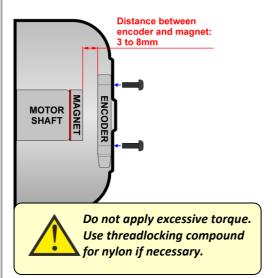
The adhesive tape on the magnet is only guaranteed proper strength if allowed to cure within this temperature range.

<u>Note that this is NOT the same as the operating</u> temperature range which is -20 to +40°C.



# ✗ INSTALL THE ENCODER

### 3. Install encoder inside fan cowl:



Use *only* the M4 nylon screws sold with this product.

If it is necessary to adjust the encoder to magnet distance, use shims or spacers.

If the encoder is to be mounted on an uneven surface it is highly recommended to use the optional "SCE Plate" between the encoder and the mounting surface as uneven tension might crack the rubber. The "SCE Plate" must be installed so that it is coincident with the back side of the encoder.

### 4. Adjust:

When installing the encoder make sure that It is centered on the magnet.





## Alignment check:

- 1. Apply power to the encoder:
  - o White 0V
  - o Brown +24V
- Rotate the motor shaft <u>1 revolution</u> by hand while observing the LED color.





# TECHNICAL DATA

#### **SCE Battery Box connection:**



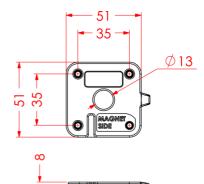
### Wire colors & mechanical dimensions:



The standard cable length is 5 meters.



**Technical data:** 



Details are subject to change

Maximum rotational speed:	3000 rpm.	
Power supply:	Supply voltage range: 8 to 26VDC	
	Current consumption:	24VDC: 50mA Battery (3,6V): 0,03mA
Communications:	RS485, 100K baud rate	
Ingress protection rating:	IP 65	
Operating temperature range:	-20 to +60°C	
Weight:	135g (including 5m wire)	