

- LED diagnostics light for easy alignment.
- IP65 hot-molded enclosure for wet environments.
- Molded-in threaded inserts for easy installation.



✗ INSTALL THE MAGNET

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

1. Preparations & precautions:

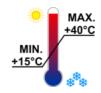
Degrease:

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.

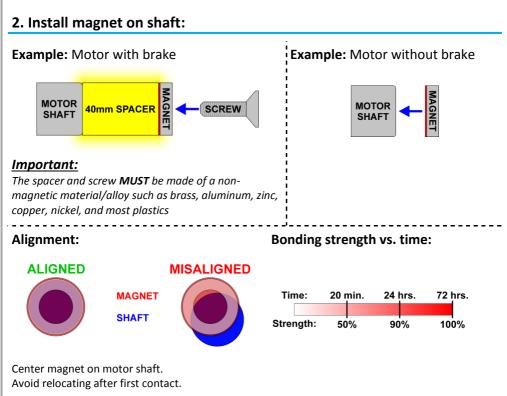
Temperature:



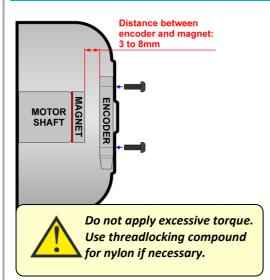
Important:

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.



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.



ALIGNED



Alignment check:

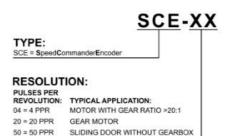
- 1. Apply power to the encoder:
 - o White 0V
 - o Brown +24V
- 2. Rotate the motor shaft <u>**1 revolution**</u> by hand while observing the LED color.



Red = Bad

TECHNICAL DATA & ORDERING INFORMATION

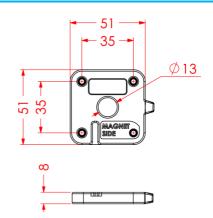
Ordering information:



Wire colors & mechanical dimensions:



The standard cable length is 5 meters.



Technical data:

Details are subject to change

Output voltage swing: Quadrature version only (RL = $2k\Omega$)	$U_{high} \ge U_B - 280 mV$ $U_{low} \le U_B + 150 mV$
Maximum pulse frequency:	10KHz (6000 rpm. with a 50 pulse encoder)
Phase shift tolerance:	45° - 145° (Speed dependent)
Power supply:	Supply voltage range: 10~24VDC Current consumption: 25mA @ 24VDC
Ingress protection rating:	IP 65
Temperature range:	-20 to +60°C
Weight:	135g (including 5m wire)