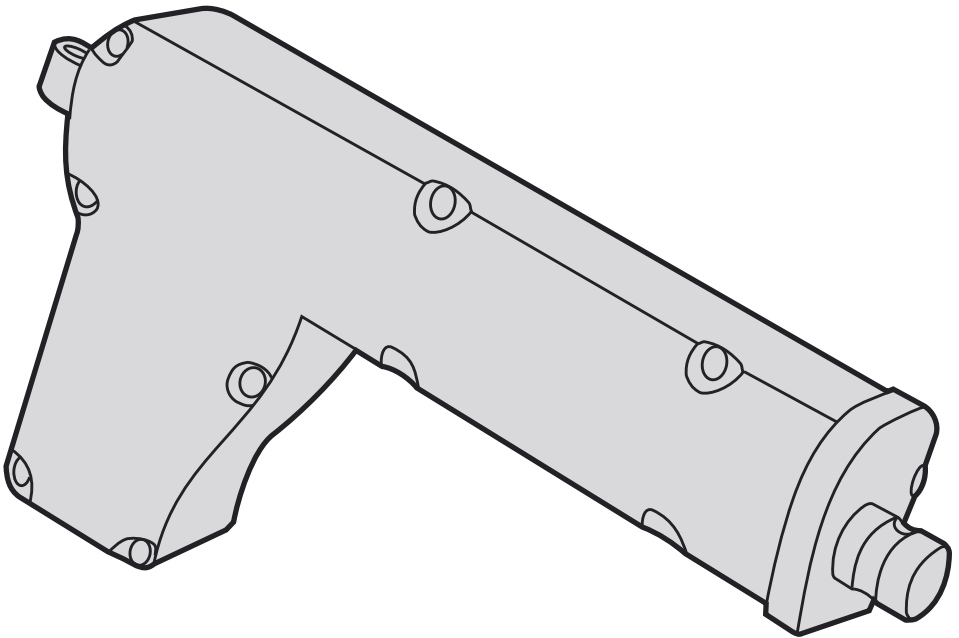


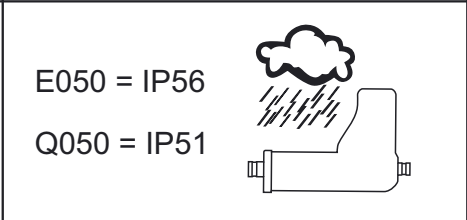
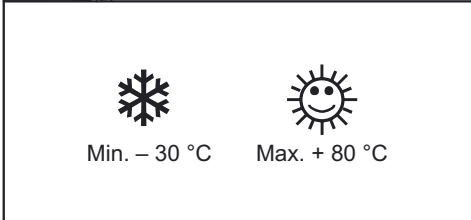
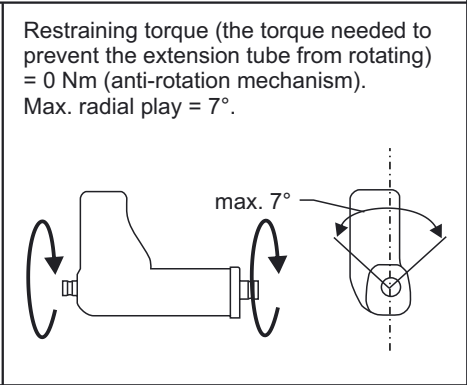
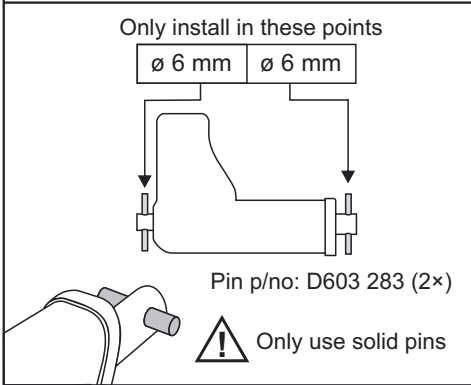
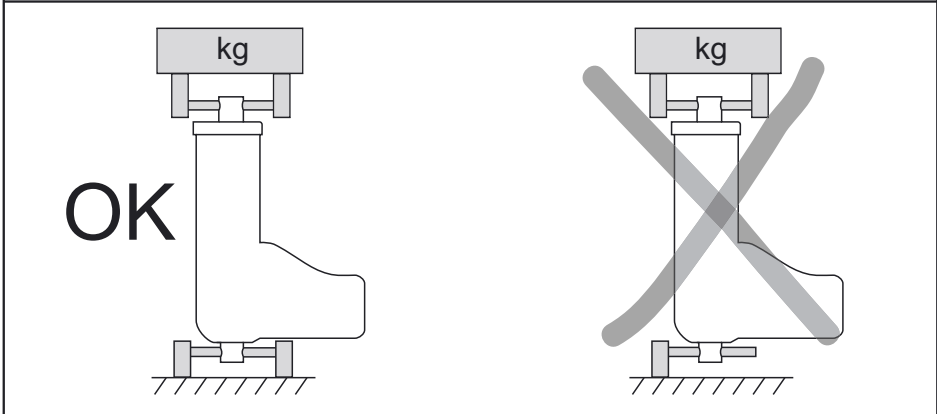
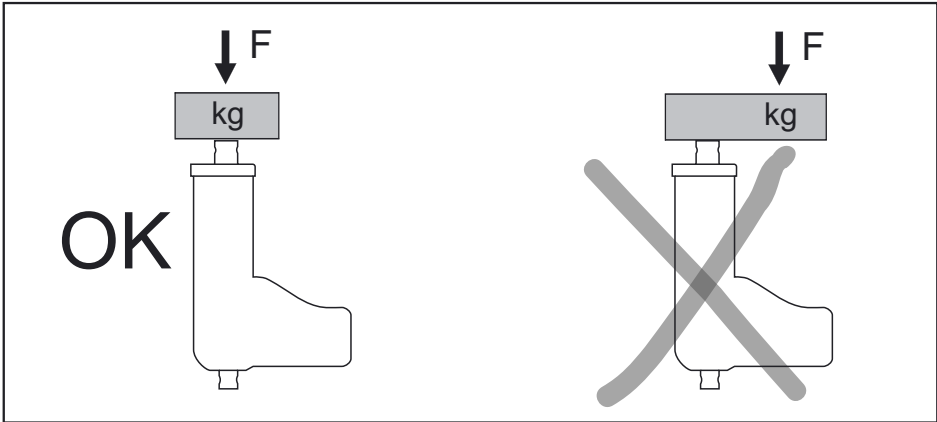
# ***Installation manual for linear actuator Electrak E050 and Q050***



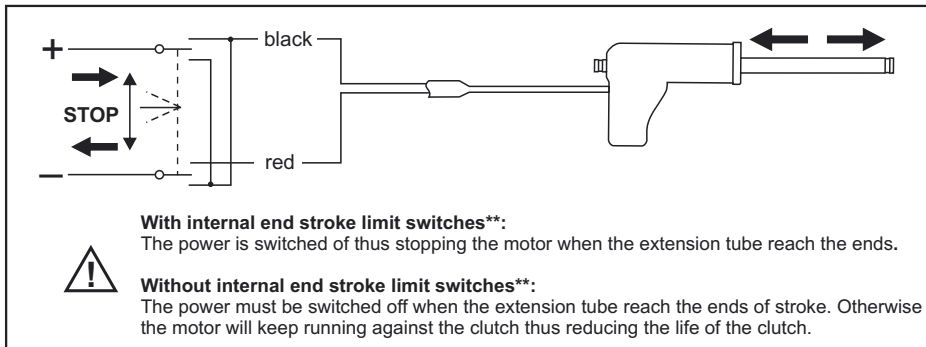
**CE**

12 VDC  
24 VDC

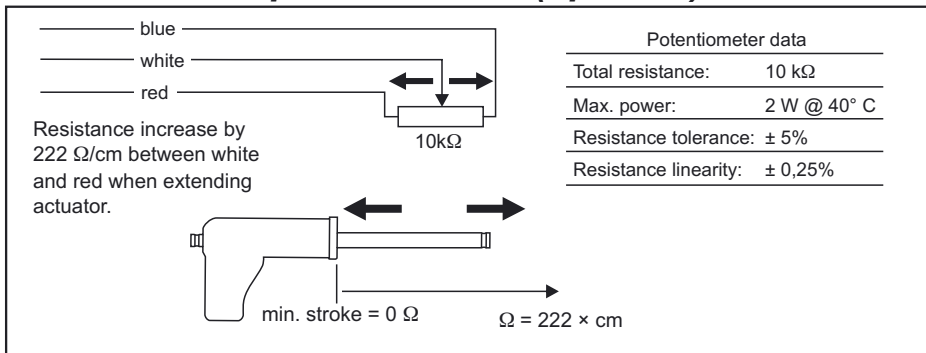
# Basic mounting rules



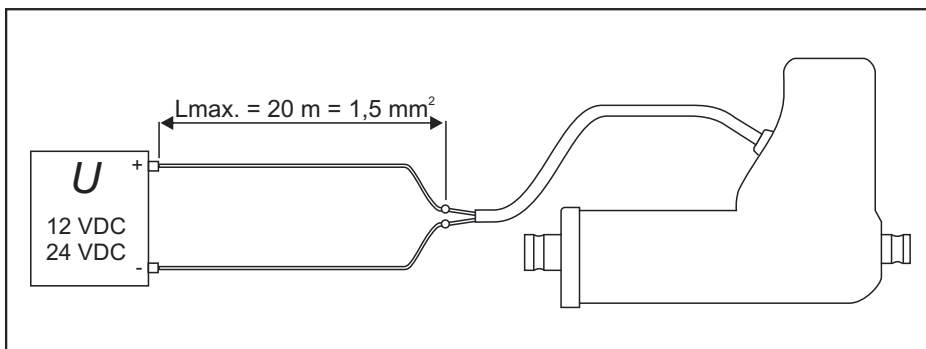
## Connection of actuator (with or without internal limit switches)



## Connection of potentiometer (option\*\*)



## Wire cross section



\*\* see last page

**CAUTION!**  
Always turn the power off before working on the actuator.

# Technical data

	<b>DE • • – (E050)</b>	<b>DE • • Q (Q050)</b>
Motor	DC-motor with auto reset thermal switch (do not use thermal switch as overload protection)	
Supply voltage	12 Vdc (10 – 16 Vdc) or 24 Vdc (20 – 28 Vdc), see label on actuator	
Max. current	see label on actuator	
Max. dynamic load for screw lead 1* for screw lead 2* for screw lead 4*	510 N 275 N 140 N	
Max. static load	2 × max. dynamic load	
Speed @ min. load for screw lead 1* for screw lead 2* for screw lead 4	12 mm/s 24 mm/s 48 mm/s	9 mm/s 18 mm/s 38 mm/s
Speed @ max. load for screw lead 1* for screw lead 2* for screw lead 4*	9 mm/s 18 mm/s 37 mm/s	7,5 mm/s 14 mm/s 30 mm/s
End play max.	1,5 mm	
Duty cycle	25 % @ 20° C	
Restraining torque	0 Nm	
Ambient temperature	– 30 to + 80° C	
Lubrication	for life	
Life (except clutch)	min. 60 000 cycles	
Life of clutch	min. 10 000 operations	
Protection class	IP 56	IP51
Slip clutch	yes	
Limit switches	yes (code FS**)	
Options**	<ul style="list-style-type: none"> <li>• Potentiometer without internal end stroke limit switches (code PO)</li> <li>• Potentiometer with internal end stroke limit switches (code PF)</li> <li>• Clevis crosshole rotated 90° and limit switches (code MF)</li> <li>• Clevis crosshole rotated 90° and potentiometer (code MP)</li> </ul>	

\* See position 10 on the actuator's type designation label, e.g. DE24-17W4**2**M10FS.

\*\* See position 14 and 15 on the actuator's type designation label, e.g. DE12Q17W41M12**PO**.

**Always install fuse and / or thermal breaker between motor and power supply to protect actuator, wiring and other items.**