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TECHNOLOGY GROUP

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so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Find the *Eltra EL48P512S5L8X6PR1.5* at our website: *Click HERE*

EL 48 C / P INSTALLATION INSTRUCTIONS

SAFETY ADVICES

- The transducer must be used in observance of its specifications. The transducer is a precision measuring instrument and it is not a safety device.
- The personnel charges in mounting and commissioning of the device must be qualified and carefully follow installation instructions. It is strongly recommended to avoid any mechanical or electrical modification for safety reasons. The warranty will lose in case of any modifications.
- Don't expose the device to stresses or impacts in order to ensure the correct functioning.
- Make sure that the mechanical coupling of the transducer shaft is designed with the appropriate elastic couplings, especially in the case of excessive axial or radial movements.
- The mechanical coupling between motor and trasducer shaft has to be made with appropriate elastic couplings, especially in the case of excessive axial or radial movements.
- Check the operating environment is free from corrosive agents (acids, etc.) or substances that are not compatible with the device and with its IP rating.
- Check the connection of the device to the ground; if necessary, provide an additional external connection.
- Products with variant code (a number or combination of numbers after ".") may have different mechanical, electrical or connections from standard product. Please refer to the additional documentation.
- Installation and wiring must be performed by trained personnel in a POWER-OFF condition.
- To prevent short-circuits, insulate unused wires at different lengths; do not use unused pins on the connector.
- Before switching on, verify the voltage range applicable to the device.
- Place power and signal cables in order to avoid capacitive or inductive interferences that may cause malfunction of the device. Place also transducer cable far from power lines or any other cable with high noise levels.
- The user who integrates the transducer in his appliance must observe CE regulations and he is responsible for the CE marking of the end machine/device.
- The malfunctions due to failure to observe these usage and installation precautions will loose the warranty.
- Eltra considers itself free from any liability for damages or injuries due to non-observance of these directives.

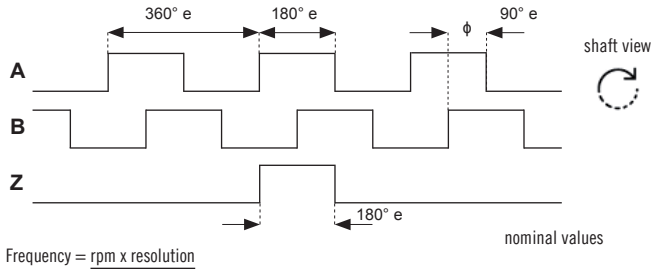
Complete documentation available on www.eltra.it

This device must be supplied by a Class 2
Power source or Limited Voltage / Current Circuit
Input Voltage: + 30V DC max
Input Current: 0.5A max

Eltra S.p.a. Unipersonale
36040 Sarego - Italy tel. +39 0444 436489 fax. +39 0444 835335
www.eltra.it **eltra@eltra.it**

cod.29050034

OUTPUT SIGNALS



Frequency = $\frac{\text{rpm x resolution}}{60}$

CONNECTIONS

PUSH PULL A/B/Z

Function	Cable colour	M connector 7 pin	V connector 9 pin	C connector M16 IP40 5 pin	M12 connector 5 pin
+V DC	red	F	5	5	2
0 V	black	A	9	1	4
A	green	5	1	2	3
B	yellow	8	2	4	1
Z	blue	3	3	3	5
⏚	shield	9	4	/	case

LINE DRIVER A/B

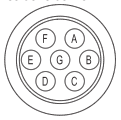
Function	Cable colour	M connector 7 pin	H connector 12 pins CCW	C connector M16 IP40 8 pin	M12 connector 8 pin
+V DC	red	D	12	7	7
0 V	black	F	10	8	1
A +	green	A	5	1	6
A -	brown or grey	C	6	2	5
B +	yellow	B	8	3	4
B -	orange	E	1	4	3
⏚	shield	G	9	/	case

LINE DRIVER A/B/Z

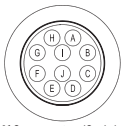
Function	Cable colour	M connector 10 pin	H connector 12 pin CCW	C connector M16 IP40 8 pin	M12 connector 8 pin
+V DC	red	D/E	12	7	7
0 V	black	F	10	8	1
A +	green	A	5	1	6
A -	brown or grey	G	6	2	5
B +	yellow	B	8	3	4
B -	orange	H	1	4	3
Z +	blue	C	3	5	2
Z -	white	I	4	6	8
⏚	shield	J	9	/	case

CONNECTORS

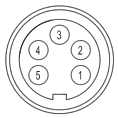
M connector (7 pin)
Amphenol MS3102-E-16-S
solder side view FV



M connector (10 pin)
Amphenol MS3102-E-18-1
solder side view FV



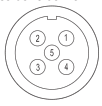
C connector (5 pin)
IEC 60130-9
solder side view FV



C connector (8 pin)
IEC 60130-9
solder side view FV



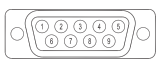
M12 connector (5 pin)
M12 A coded
solder side view FV



M12 connector (8 pin)
M12 A coded
solder side view FV



V connector (9 pin)
SUB-DE
solder side view FV

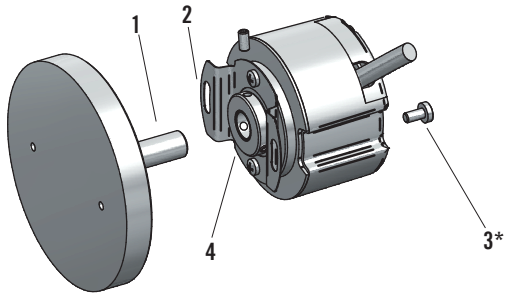


H connector (12 pin) - M23 CCW
Hummel 7.410.000.000 - 7.002.912.603
solder side view FV



48 C / P

1. Apply the encoder shaft on the customer motor shaft **1**.
2. Fix the spring **2** to the customer motor flange without fixing it with n.2 M3 screws **3**.
3. Apply the threadlocker (eg. Loctite 243) and fix the n.3 M3 grub screws **4**, fixing torque 0,4 Nm / 57 Ozin recommended.
4. Fix the M3 screws **3**.



* not included

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