



Fagor Automation S. Coop.

Manual code: 14460147

Manual version: 1105



ENCODER HAF-D200

MANUAL DE INSTALACIÓN
INSTALLATION MANUAL

FAGOR AUTOMATION S. COOP.

B^a San Andrés N^o 19

Apdo de correos 144

20500 Arrasate/Mondragón

- Spain -

Web: www.fagorautomation.com

Email: info@fagorautomation.es

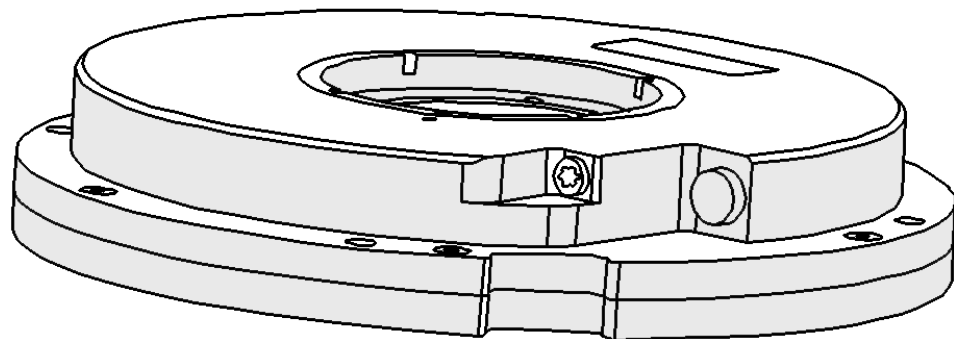
Tel.: (34) 943 719200

Fax: (34) 943 791712



Fagor Automation S. Coop.





MANUAL

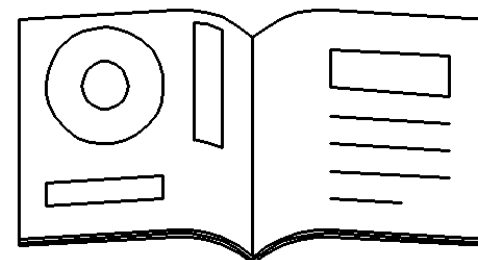
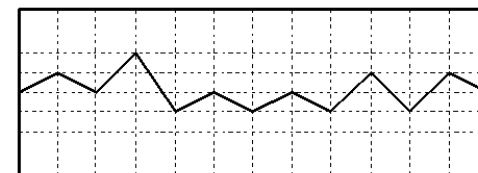
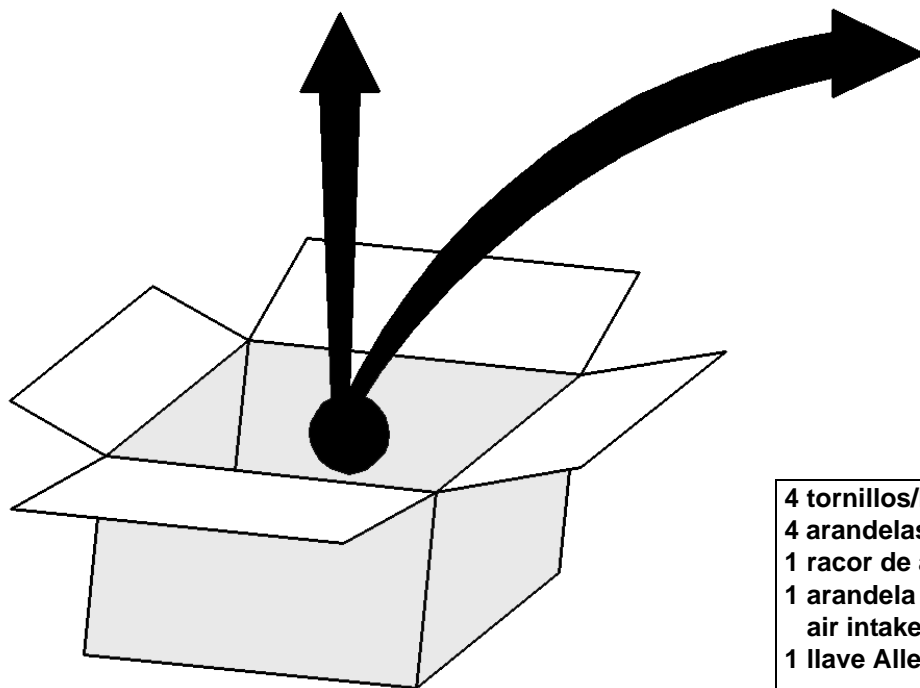
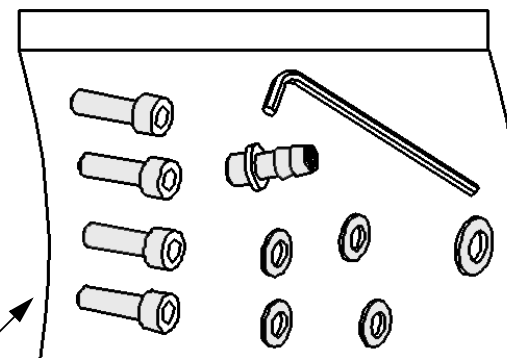


GRÁFICO
GRAPH



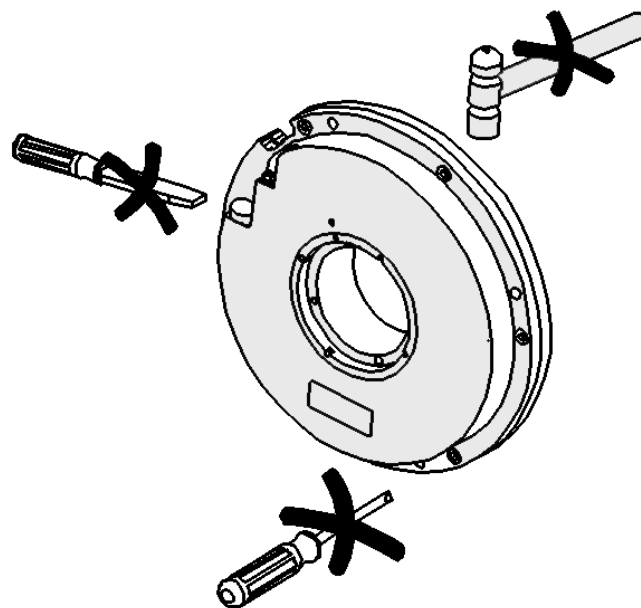
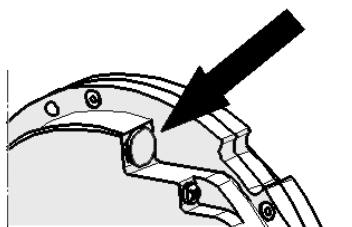
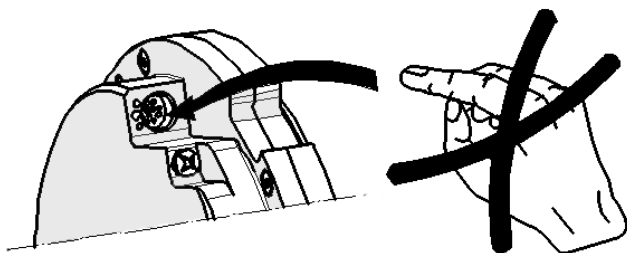
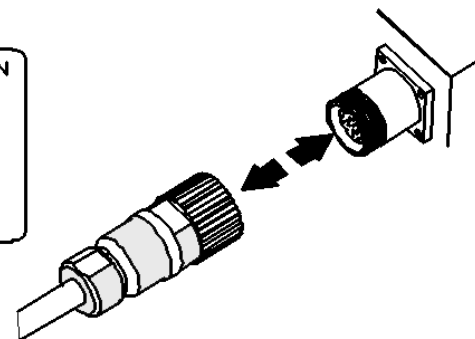
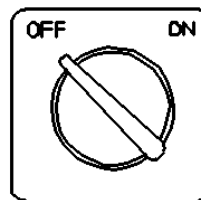
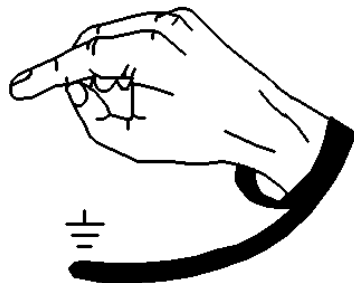
ACCESORIOS
ACCESSORIES



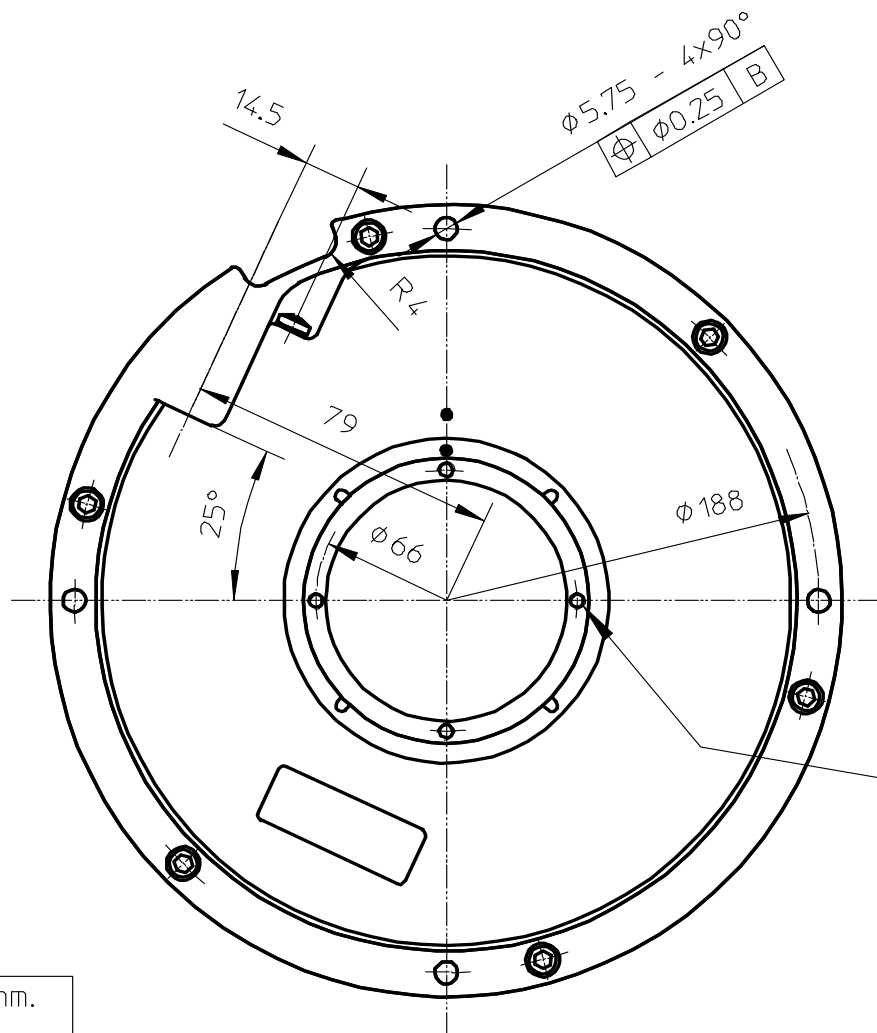
4 tornillos/bolts M5 x 25 DIN 912
4 arandelas/washers M5 DIN 125
1 racor de aire / air intake
1 arandela racor de aire /
air intake washer
1 llave Allen / Allen wrench




DIN EN 100

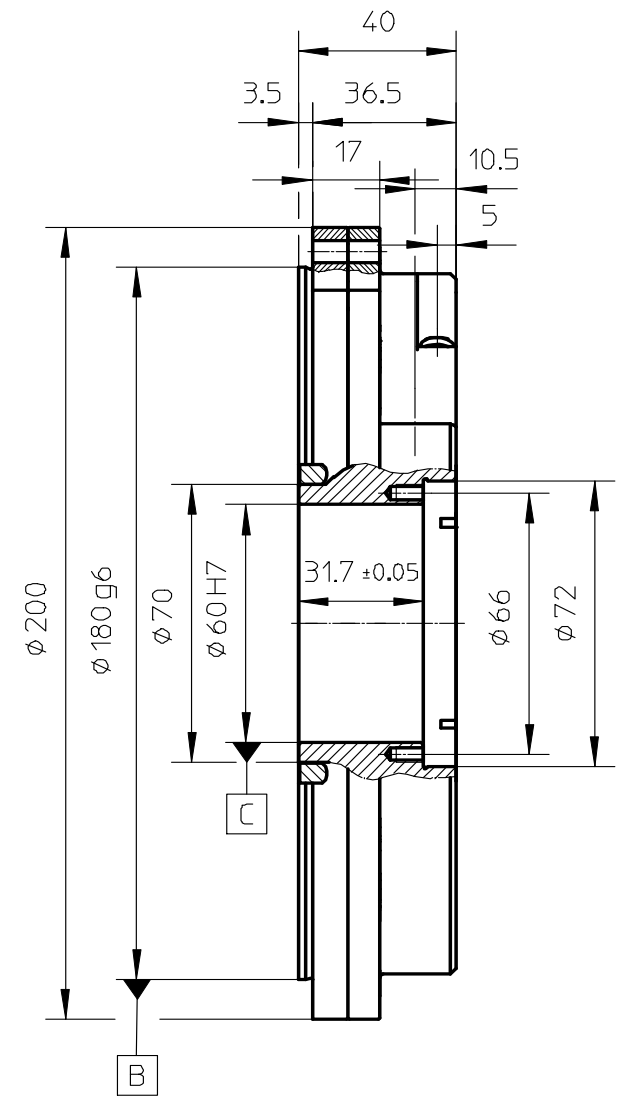


GENERAL DIMENSIONS



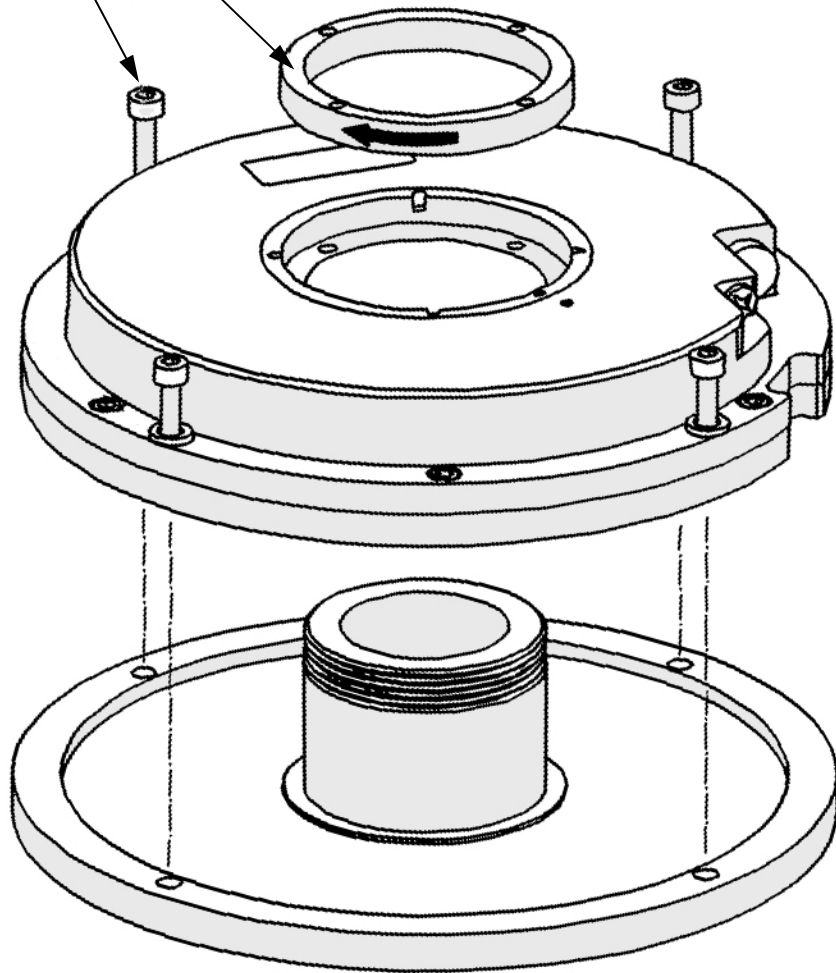
M4 - 4x90°
 $\phi 0.3$ C

Dimensions in mm.

 Tolerance ISO 8015
 ISO 2768 - m H

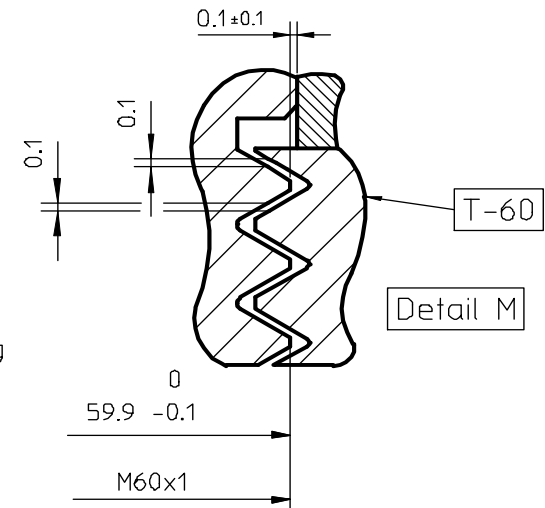
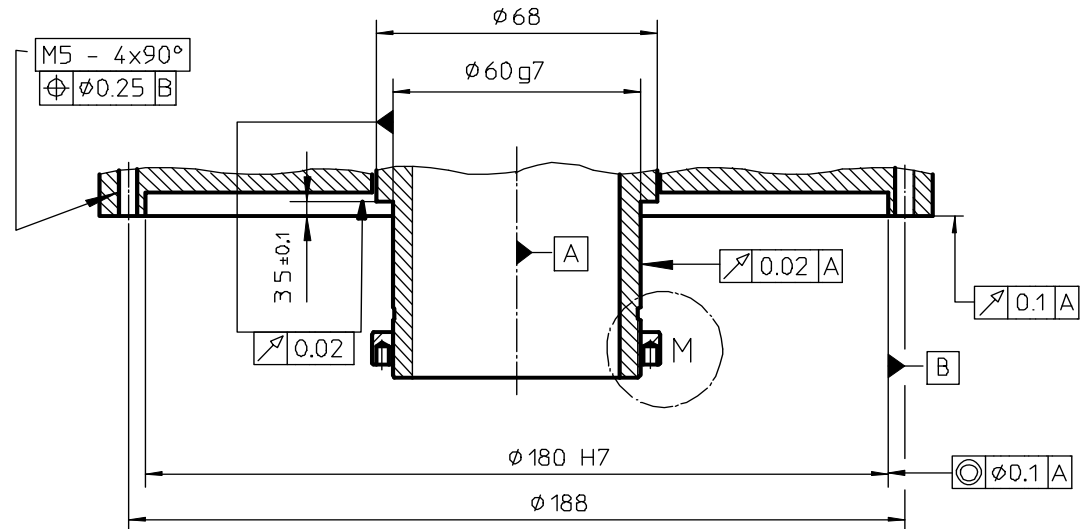


MONTAJE / MOUNTING

4 M5 DIN 125
 4 M5 DIN 912, T = 5 Nm
 T = 20 Nm T-60 (ver página 10 / see page 10)



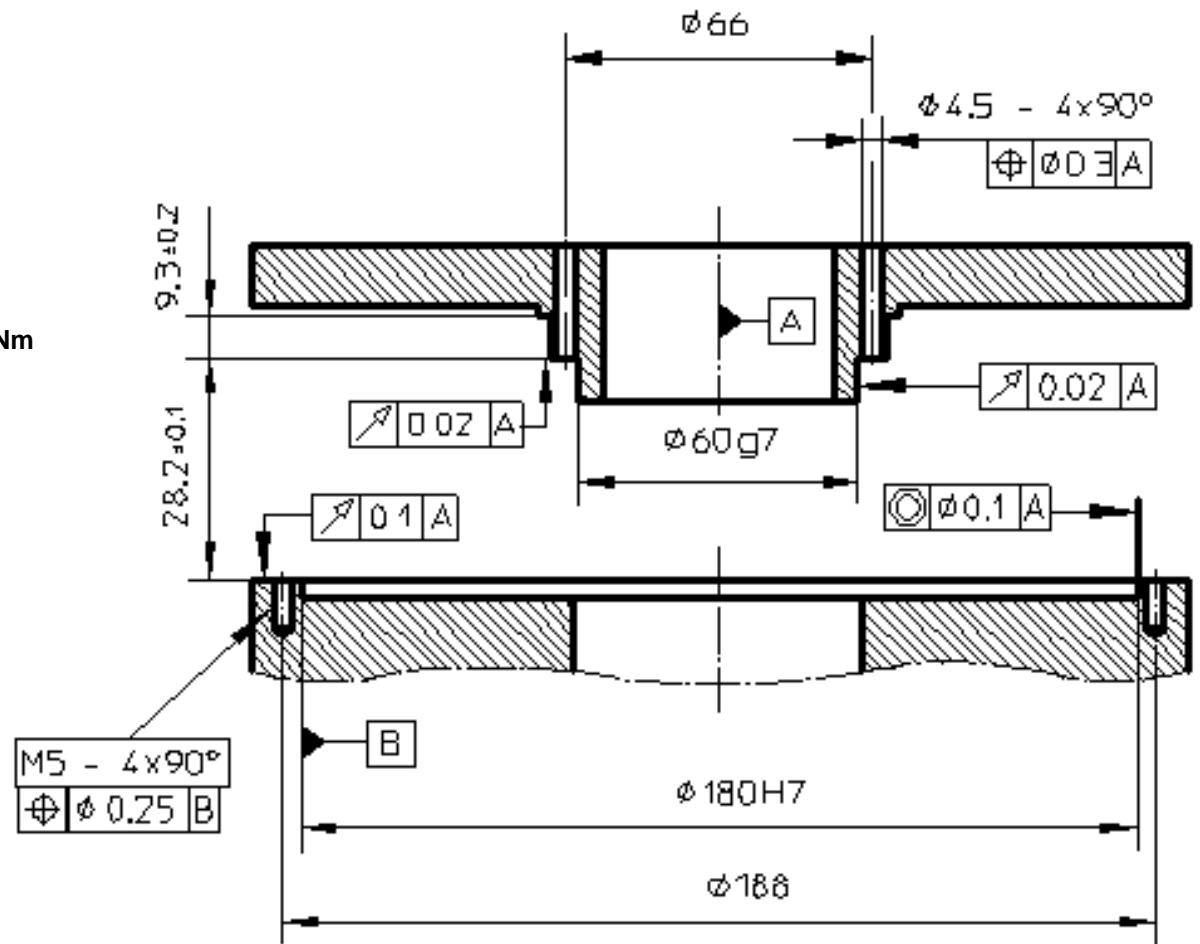
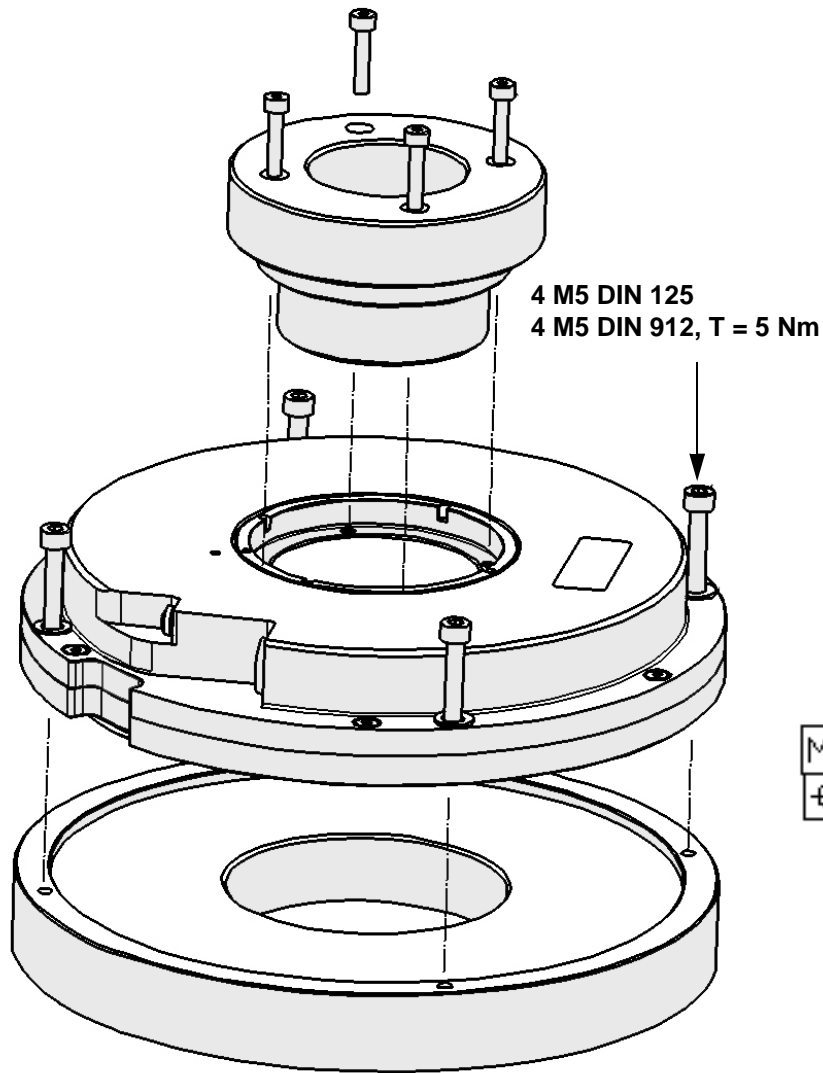
Cotas de montaje / Mounting dimensions



A Rodamiento / Roller bearing

MONTAJE / MOUNTING

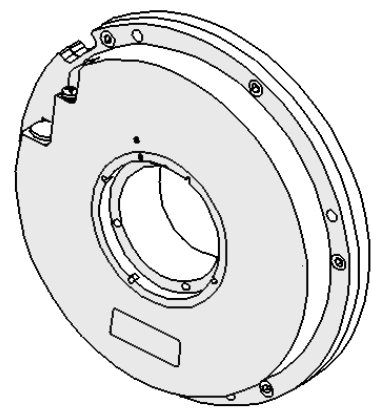
Cotas de montaje / Mounting dimensions



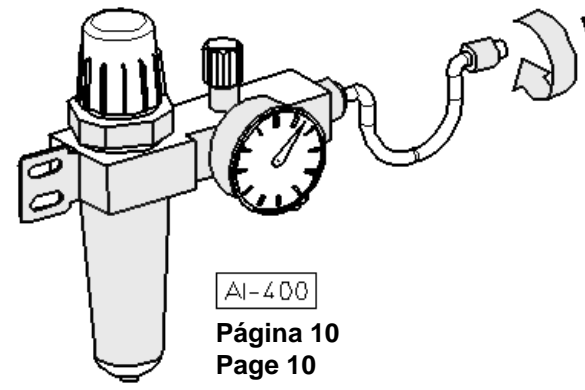
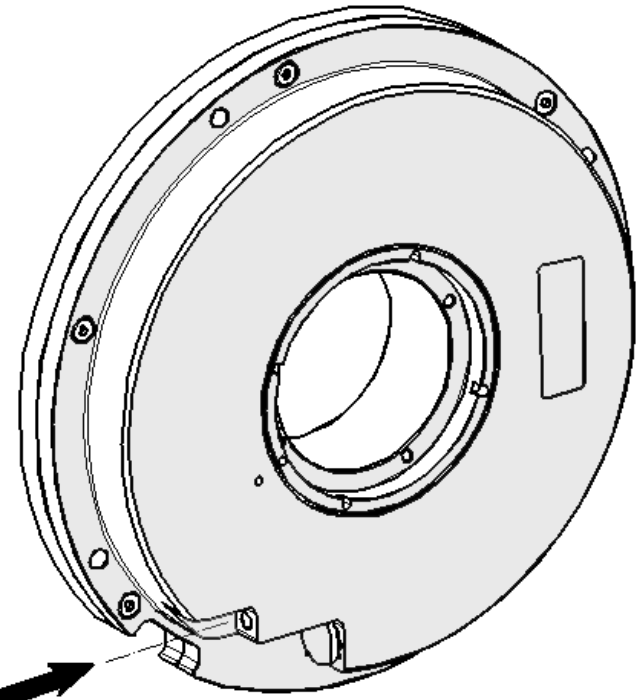
CARACTERÍSTICAS MECÁNICAS MECHANICAL CHARACTERISTICS

Modelo	HAF-D200-27	HAF-D200-27	Model
Precisión	±2"	±1"	Accuracy
Maxima velocidad de giro	1000 rpm		Max. Turning speed
Momento de inercia del eje	10000 gr.cm ²		Inertia of the rotor
Par (20°C)	≤ 0.05 Nm		Torque
Frecuencia natural	≥ 1000 Hz		Natural frequency
Peso	3.2 kg		Weight
Estanqueidad	IP-64 (DIN 40050)		Sealing protection
Vibración (55 - 2000 Hz)	100 m/s ² (IEC 60 068-2-6)		Vibration (50 - 2000 Hz)
Impacto (6ms)	1000 m/s ² (IEC 60 068-2-27)		Impact (6 ms)
Temperatura de funcionamiento	0 °C ... 50 °C (32 °F ... 122 °F)		Operating temperature
Temperatura de almacenamiento	-30 °C ... 80 °C (-22 °F ... 176 °F)		Storage temperature

Nivel máximo: IP 64
Maximum level IP 64



> IP 64



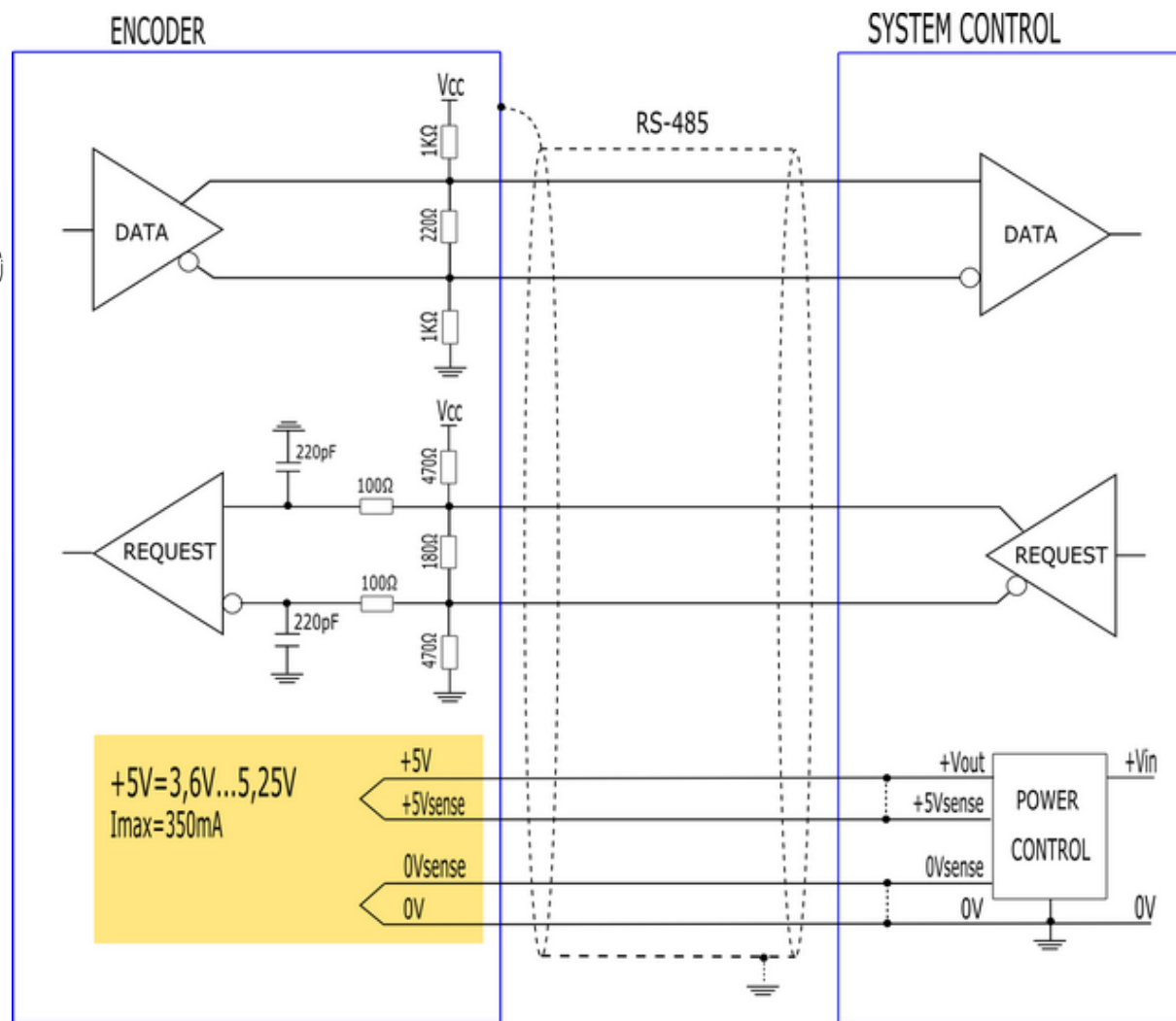
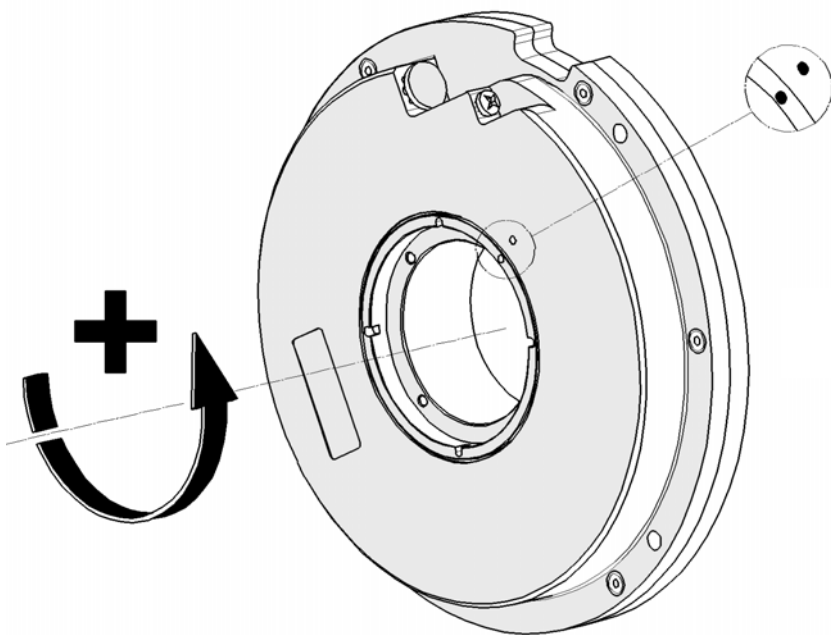
AI-400
 Página 10
 Page 10

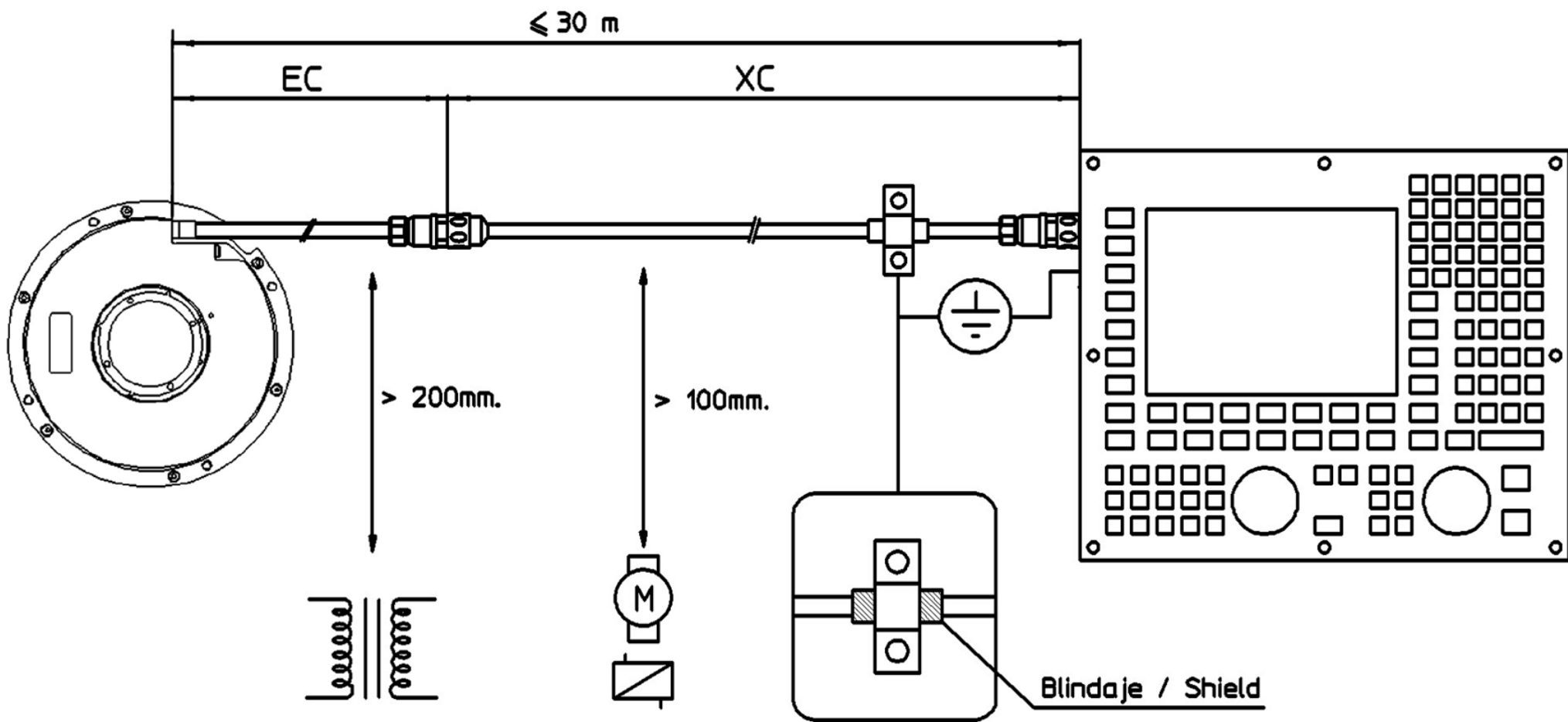
(A) AIR CONDITIONS	
DIN ISO 8573 -1	
Class 1 - Particule Max. 0.1 µ	
Class 4 (7 bar) - Punto rocío / dewpoint 3 °C	
Class 1 - Max. Concentration oil 0.01 mg/m3	
Presión / Pressure	1 Kg / cm3
Flujo / Flow	10 l. / min. / encoder

CARACTERÍSTICAS ELÉCTRICAS / ELECTRICAL CHARACTERISTICS

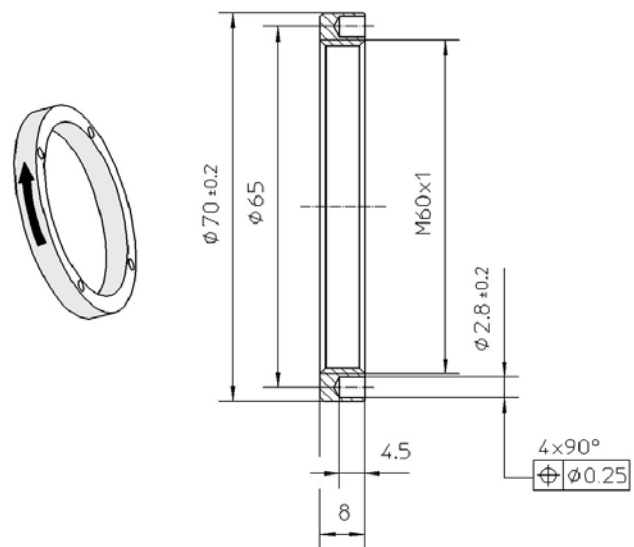
Posición del origen 0°
0° origin position

Girar eje para alinear puntos
Turn the shaft ligning up the dots

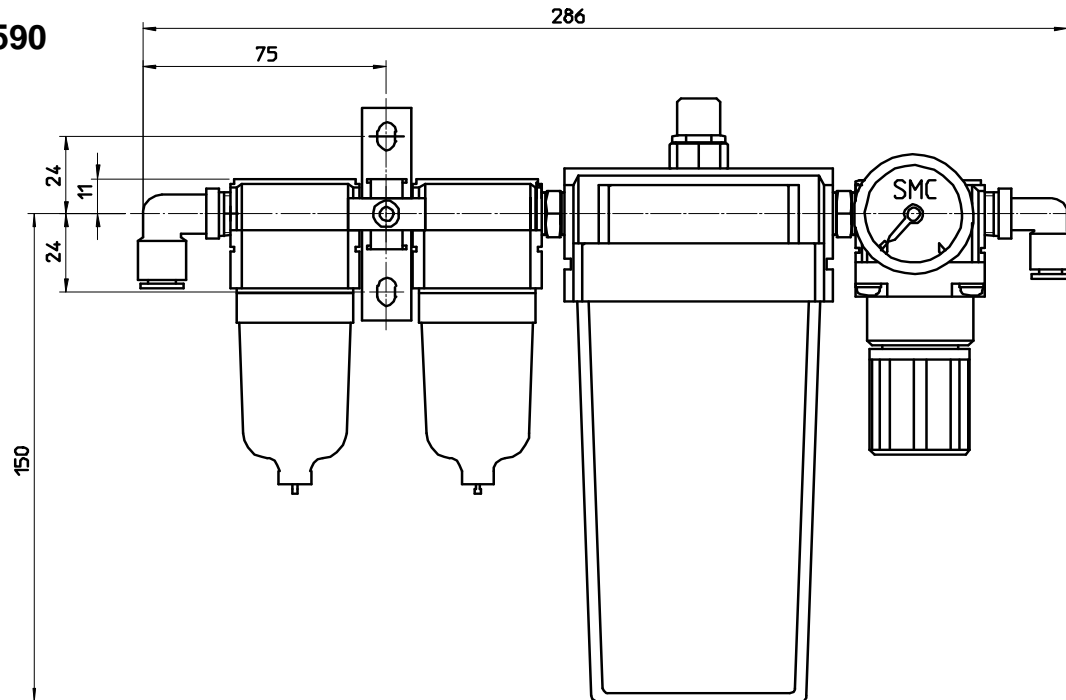




TUERCA / NUT



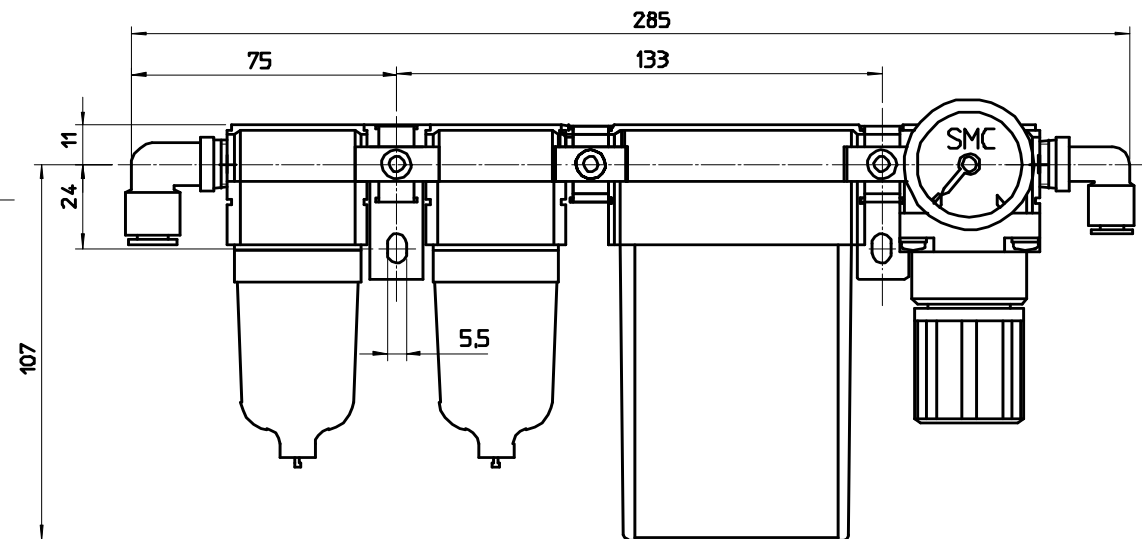
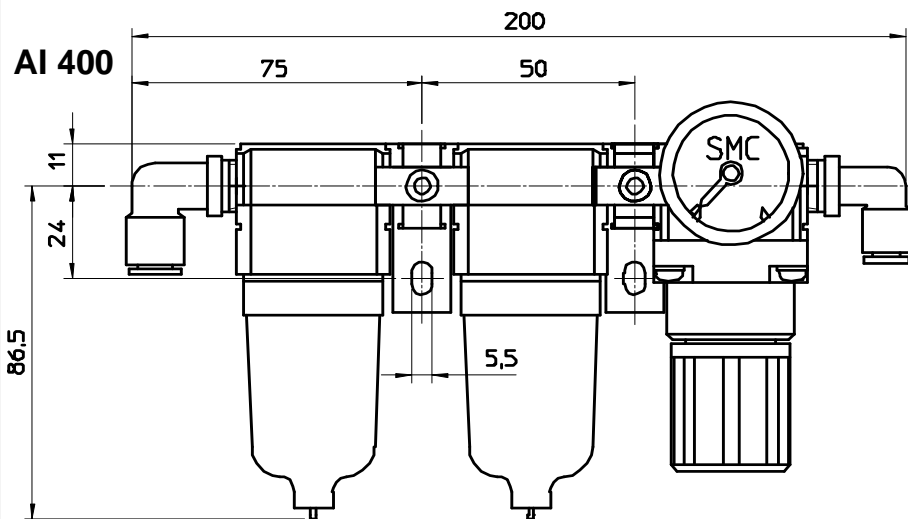
AI 590



FILTROS DE AIRE / AIR FILTERS

2200000	AI 400	25 l/min
2200001	AI 525	(25l/min)
2200002	AI 550	(50 l/min)
2200003	AI 590	(90 l/min)

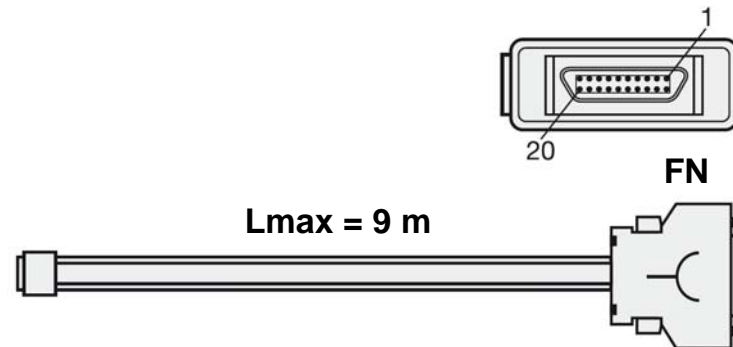
AI 525 / AI 550



FANUC: CONEXIONES / CONNECTIONS

EC...PA...FN Cable para **conexión directa** a controles absolutos FANUC (segunda captación). Disponible en 1, 3, 6 and 9 metros.
Cable for **direct connection** to FANUC absolute controllers (second feedback). Available in 1, 3, 6 and 9 meters.

Conector hembra tipo HONDA/HIROSE <i>type female connector</i>									
PIN	9	18-20	12	14	1	2	5	6	16
SEÑAL SIGNAL	+5V	+5V sensor	0V	0V sensor	DATA	/DATA	REQUEST	/REQUEST	Tierra Ground
COLOR	Marrón Brown	Gris Grey	Blanco White	Rosa Pink	Verde Green	Amarillo Yellow	Azul Blue	Rojo Red	

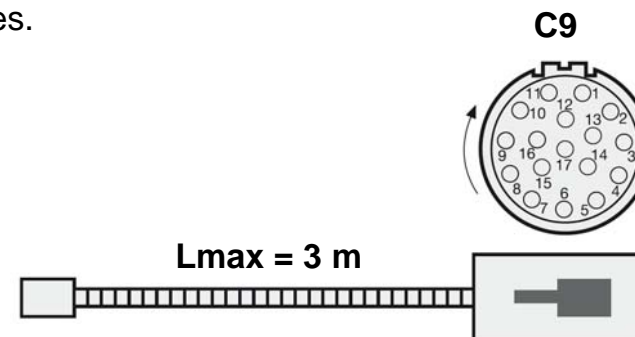


FANUC: CONEXIONES / CONNECTIONS

También se puede utilizar la combinación de un cable EC...B...C9 con una alargadera XC...C8...FN para otras longitudes.
A combination of EC...B...C9 cable and an XC...C8...FN extension cable may be used for other lengths.

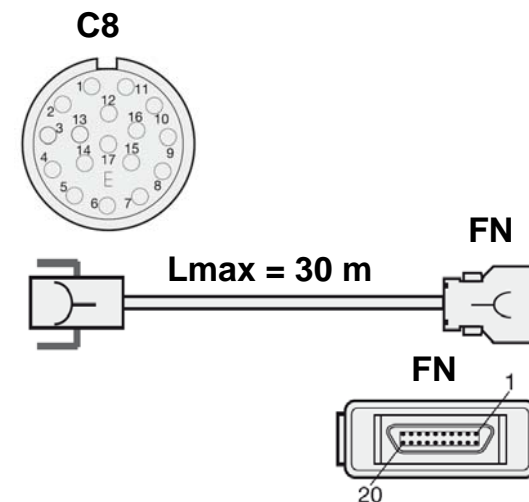
EC...B...C9 Cable disponible en 1 y 3 metros. Contactar con FAGOR para otras longitudes.
Cable available in 1 and 3 meters. Contact FAGOR for other lengths.

Conector macho circular 17 male connector									
PIN	7	1	10	4	14	17	8	9	Caperuza Housing
SEÑAL SIGNAL	+5V	+5V sensor	0V	0V sensor	DATA /DATA	REQUEST /REQUEST			Tierra Ground
COLOR	Marrón Brown	Gris claro Light grey	Blanco White	Naranja Orange	Gris Grey	Rosa Pink	Negro Black	Violeta Purple	Malla interna Internal shield



XC...C8...FN Alargadera disponible en 5, 10, 15, 20 y 25 metros.
Extension cable available in 5, 10, 15, 20 and 25 meters.

Conector (C8) hembra circular 17 female connector									
PIN	7	1	10	4	14	17	8	9	Caperuza Housing
Conector (FN) hembra rectangular 20 HONDA/HIROSE female rectangular connector									
PIN	9	18-20	12	14	1	2	5	6	16
SEÑAL SIGNAL	+5V	+5V Sensor	0V	0V sensor	DATA /DATA	REQUEST /REQUEST			Malla Shield
COLOR	Marrón-verde Brown-green	Azul Blue	Blanco-verde White-green	Blanco White	Gris Grey	Rosa Pink	Violeta Purple	Amarillo Yellow	Negro Black



GARANTIA

*Plazo: 12 meses a partir de la fecha de expedición de fábrica.

*Cubre gastos de Materiales y Mano de Obra de reparación en FAGOR AUTOMATION.

*Los gastos de desplazamiento son a cargo del cliente.

*No cubre averías por causas ajenas a FAGOR AUTOMATION, como: golpes, manipulación por personal no autorizado, etc.

WARRANTY

*Term: 12 months from factory invoice date.

*It covers parts and labor at FAGOR AUTOMATION.

*Travel expenses are payable by the customer.

*Damages due to causes external to FAGOR AUTOMATION, such as unauthorized handling, blows, etc. are not covered.

DECLARACION DE CONFORMIDAD

Fabricante: Fagor Automation, S. Coop.

Barrio de San Andrés 19, C.P. 20500, Mondragón -Guipúzcoa- (ESPAÑA)

Declaramos bajo nuestra exclusiva responsabilidad la conformidad del producto al que hace referencia este manual

Nota. Algunos caracteres adicionales pueden seguir a las referencias de los modelos indicados en este manual. Todos ellos cumplen con las siguientes normas:

COMPATIBILIDAD ELECTROMAGNÉTICA:

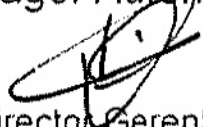
EN 61000-6-2:2005 Norma de Inmunidad en entornos industriales

EN 61000-6-4:2007 Norma de Emisión en entornos industriales

De acuerdo con las disposiciones de la Directiva Comunitaria: 2004/108/CE de Compatibilidad Electromagnética.

Mondragón a 1 de Mayo de 2011

Fagor Automation, S. Coop.


Director Gerente
Pedro Ruiz de Aguirre

DECLARATION OF CONFORMITY

Manufacturer: Fagor Automation, S. Coop.

Barrio de San Andrés 19, C.P. 20500, Mondragón -Guipúzcoa- (SPAIN)

We declare under our exclusive responsibility the conformity of the product referred to in this manual.

Note. Some additional characters may follow the model references indicated in this manual. They all comply with the following regulations:

ELECTROMAGNETIC COMPATIBILITY:

EN 61000-6-2:2005 Standard on immunity in industrial environments

EN 61000-6-4:2007 Standard on emission in industrial environments

According to the European Directive: 2004/108/CE on electromagnetic compatibility.

Mondragón, May 1st 2011

NOTAS DE USUARIO / USER NOTES

