



ENCODER ANGULAR MODELO: S3BF-D90

ANGULAR ENCODER MODEL: S3BF-D90

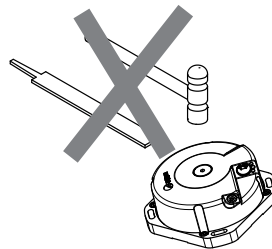
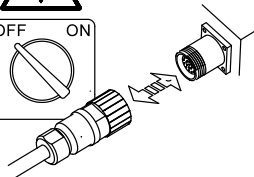
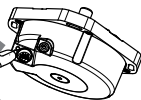
MANUAL DE INSTALACION / *INSTALLATION MANUAL*

Manual Code: 14460399

Manual Version: 2407



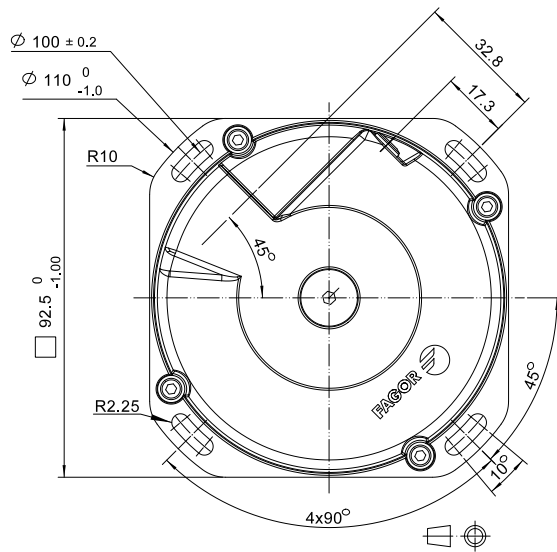
Precaución / Caution



Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances.

Key dimensions and tolerances:

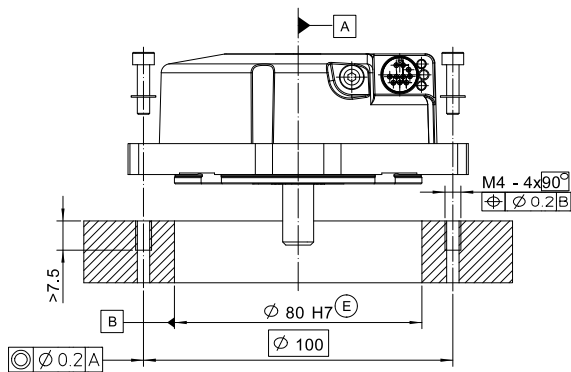
- Overall height: 89.5 ± 0.5
- Base width: 42^{+1}_0
- Mounting hole diameter: $\varnothing 10 \text{ h6}$
- Distance from base to mounting hole center: 13 ± 0.25
- Distance from base to top edge: 3 ± 0.2
- Distance from base to top edge (alternative): 19.8^{0}_{-1}
- Surface finish requirements: 0.08 A , 0.01 A
- Geometric tolerances: $\varnothing 80 \text{ h7 E}$, $\varnothing 0.01 \text{ A}$



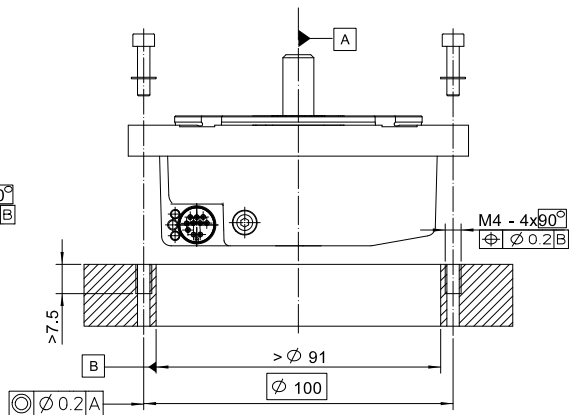
mm
Tolerancing ISO 8015
ISO 2768 - m H

Posibilidades de montaje / Mounting possibilities

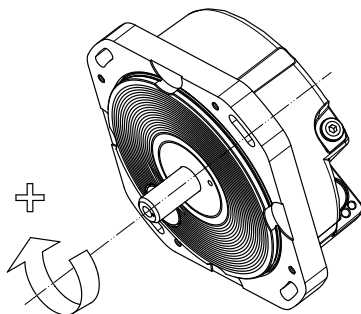
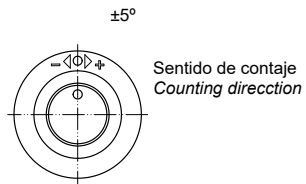
4 x
DIN 912 - M4 x 16 - INOX A2
DIN 433 - 4 - INOX A2
Pa = 2.5 ± 0.15 Nm



4 x
DIN 912 - M4 x 16 - INOX A2
DIN 433 - 4 - INOX A2
Pa= 2.5 ± 0.15 Nm



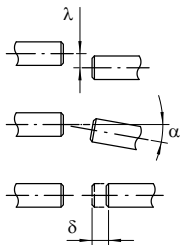
Pa = Par de apriete / *Tightening torque*



Para instalar el encoder en la posición 0° girar el eje hasta alinear los puntos marcados en el eje y cuerpo.

For installing the encoder on the 0° position turn the shaft and align the marks on the shaft and body.

Acoplamientos / Couplings



Error cinemático de transferencia:
Kinematic error of transfer:

Model AA: $\pm 2''$ at $\lambda \leq 0.1 \text{ mm}$ & $\alpha \leq 0.09^\circ$

λ max.: 0.3 mm

α max.: 0.5°

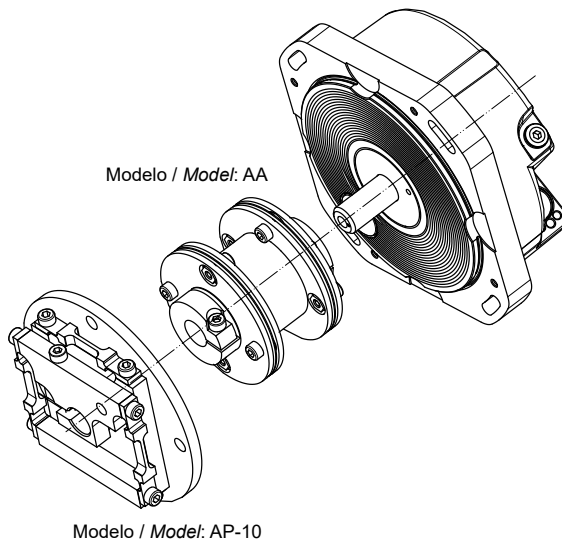
δ max.: 0.2 mm

Model AP-10: $\pm 2''$ at $\lambda \leq 0.1 \text{ mm}$ & $\alpha \leq 0.09^\circ$

λ max.: 0.3 mm

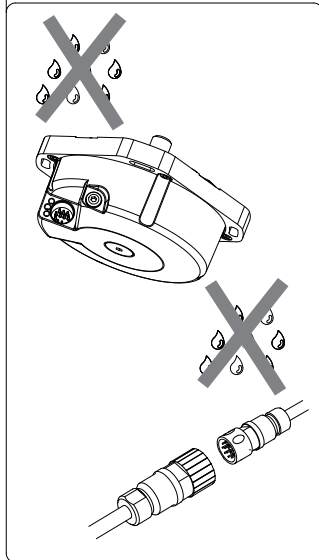
α max.: 0.5°

δ max.: 0.2 mm

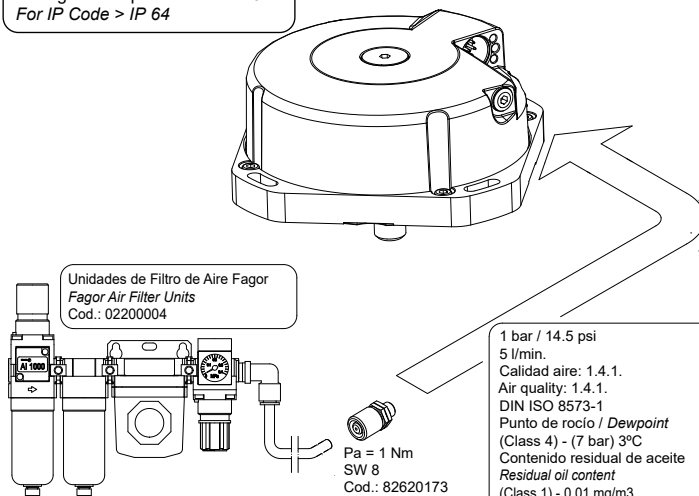


Conexión equipo de aire / *Connecting air equipment*

Máximo grado de protección IP 64
Maximum IP Code IP 64



Para grado de protección > IP 64
For IP Code > IP 64



Unidades de Filtro de Aire Fagor
Fagor Air Filter Units
Cod.: 02200004

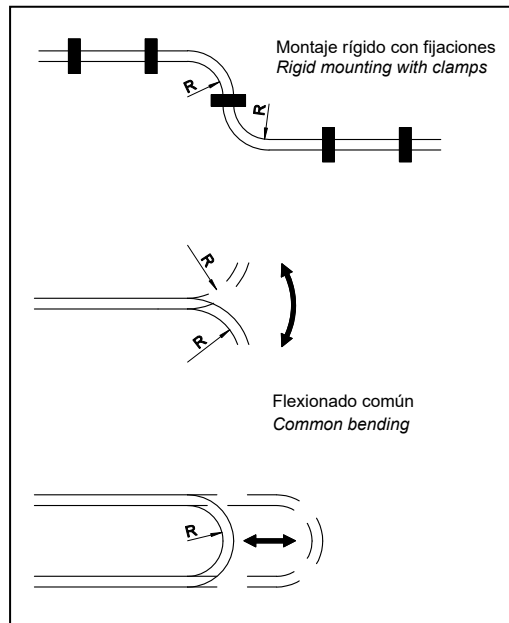
1 bar / 14.5 psi
5 l/min.
Calidad aire: 1.4.1.
Air quality: 1.4.1.
DIN ISO 8573-1
Punto de rocío / *Dewpoint*
(Class 4) - (7 bar) 3°C
Contenido residual de aceite
Residual oil content
(Class 1) - 0.01 mg/m3

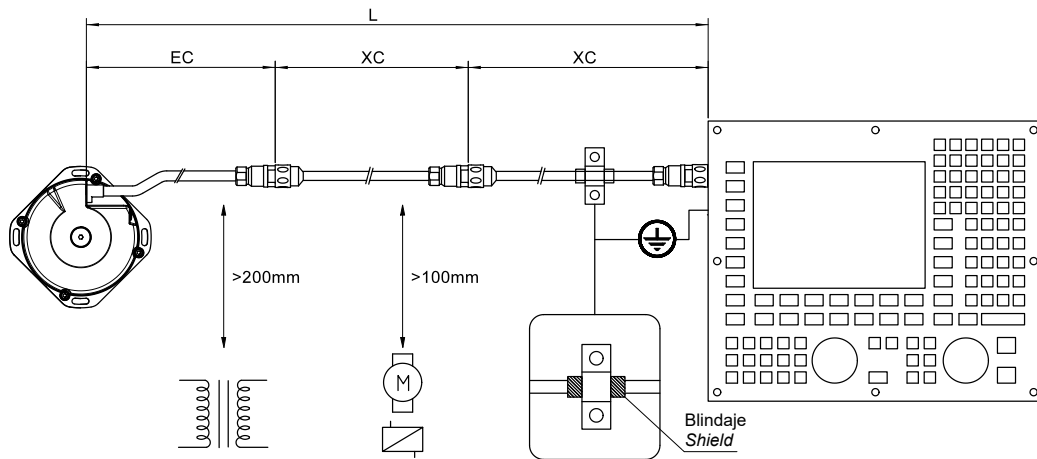
Pa = 1 Nm
SW 8
Cod.: 82620173

(SW) Tamaño de la llave hexagonal / *Size of Allen wrench*

Características eléctricas / *Electrical characteristics*

	S3BF-26-D90	S3BF-28-D90
Alimentación <i>Power supply</i>	3,8 hasta 14 V DC; < 250 mA (a 5V sin carga) <i>3.8 to 14 V DC; < 250 mA (at 5V without load)</i>	
Resolución Número posiciones por vuelta <i>Resolution</i> <i>Number of positions per turn</i>	α : 26 bits (67108864) α : 23 bits (8388608)	α : 28 bits (268435456) α : 27 bits (134217728)
Longitud del cable <i>Cable length</i>	50 m / 164 ft	
Radio de curvatura / <i>Bending radius</i>		
	Rígido / <i>Rigid</i>	Flexible
Φ 6 mm	> 24 mm	> 60 mm
Φ 10 mm (con protección / <i>with protection</i>)	> 35 mm	> 60 mm
Φ 8 mm	> 50 mm	> 80 mm





Cables para conexión de encoders absolutos Fagor a sistemas Fanuc

Cables for connection of Fagor absolute encoders to Fanuc systems

Conexión directa Cable EC

Direct connection EC cable

EC-PA-FN Longitud / *length* = 1, 3, 6, 9 m

Conexión con alargadera
Connection with extension cable

(4 x 2 x 0.14 mm² + 4 x 0.5 mm²)

Cable EC

Alargadera intermedia opcional XCint
Intermediate extension cable optional XCint

Alargadera XC / *Extension cable XC*

EC-B-C9 Longitud / *length* = 1, 3 m

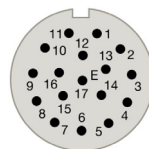
XC-C8-F-C9 Longitud / *length* = 5, 10, 15, 20, 25 m

XC-C8-FN Longitud / *length* = 5, 10, 15, 20, 25 m

EC -...B - C9	Conector M23 17 macho / 17-pin male M23 connector									
PIN	14	17	8	9	7	1	10	4	11	Carcasa Housing
SEÑAL SIGNAL	DATA	/DATA	REQ	/REQ	+5V	+5V sensor	0V	0V sensor	Tierra Ground	Tierra Ground
COLOR	Gris Grey	Rosa Pink	Negro Black	Violeta Purple	Marrón Brown	Verde claro Light green	Blanco White	Naranja Orange	Malla interna Internal shield	Malla externa External shield



EC - ...B - C9



Condiciones de garantía / *Warranty terms*

Las condiciones de garantía de este producto están disponibles en la zona de descargas del sitio web corporativo de FAGOR.
<http://www.fagorautomation.com>. (Tipo de fichero: Condiciones generales de venta-Garantía).

The warranty conditions for this product are available in the downloads section of FAGOR's corporate website at
<http://www.fagorautomation.com>.

(Type of file: General Terms and Conditions of Purchase - Warranty).

Declaración de conformidad / *Declaration of conformity*

La declaración de conformidad de este producto está disponible en la zona de descargas del sitio web corporativo de FAGOR.
<http://www.fagorautomation.com>. (Tipo de fichero: Declaración de conformidad).

The declaration of conformity for this product is available in the downloads section of FAGOR'S corporate website at
<http://www.fagorautomation.com>.

(Type of file: Declaration of conformity).

Registro de garantía / *Warranty register*

Para registrar su producto y obtener todas las ventajas del completo servicio postventa de Fagor Automation rellene el formulario disponible en el siguiente enlace: <https://www.fagorautomation.com/servicio/cartera-de-servicios/registro-de-producto/>

To register your product and obtain all the advantages of Fagor Automation's full after-sales service fill out form available at the following link: <https://www.fagorautomation.com/en/customer-service/service-portfolio/product-registration/>

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