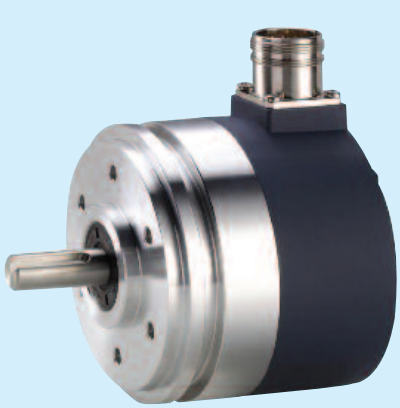
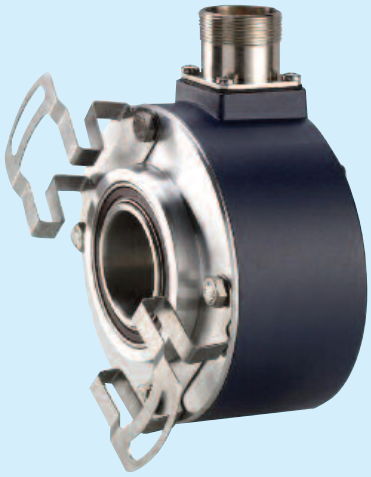
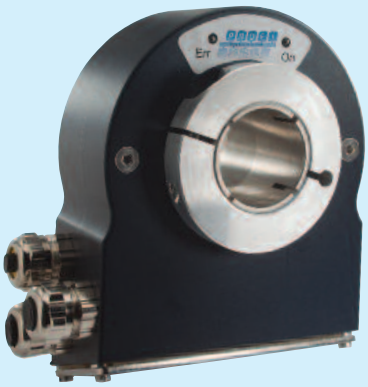
FAxx90

- Heavy duty absolute single- and multiturn encoders with SSI, Profibus, CANopen outputs. Parallel output for most versions on request
- Shaft and hollow shaft versions with Ø 90 mm
- Applications:
  -Steel industry
  -Paper industry
  -Cranes
- Shaft Ø 11 or 12 mm
- Through hollow shaft Ø 12, 20, 25, 30 mm (others on request) (Profibus blind shaft only)
- Easy mounting of the hollow shaft version. The encoder is mounted directly on the drive shaft without coupling







SSI

CANopen

PROFI® PROCESS FIELD BUS

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ABSOLUTE ENCODER MyAbs

FAxx90

Electrical Data:		SSI[1)]	Profibus (MT)	CANopen (MT)
Supply voltage		5–30 VDC	5–30 VDC	5–30 VDC
Intrinsic current consumption (without load)		100 mA max.	24 VDC: max. 170 mA	24 VDC: max. 120 mA
Interface		Standard SSI	Specification according DPVO, Class 2, encoder profile 3.062	CAN high speed according ISO 11898, Bacic and full CAN CAN specification DS301 V4.02
Protocol				CAN open profile DS406 V3.1
Lines/Drivers		RS422		
Output code		SSI: Binary or Gray	Binary	Binary
Singleturn resolution		13 Bit	13 Bit	13 Bit
Multiturn resolution		12 Bit	16 Bit	16 Bit
Incremental signals		optional		
Number of increments		2048		
Clock frequency	ST	100 kHz–1 MHz		
	MT	100 kHz–500 kHz		
Connection		Cable or flange-connector	Terminal box	Cable or flange-connector
Parameterization			According to Profibus profile	According to CANopen profile
Control input		Direction, Reset		

Mechanical Data:		SSI[1)]	Profibus (MT)	CANopen (MT)
Housing diameter		90 mm	90 mm	90 mm
Protection		FAxS90: IP 65 FAxH90: IP 65	FAMS90: IP 65 FAMH90: IP 65	FAMS90: IP 65 FAMH90: IP 65
Flange types		Synchro-flange Spring tether	Synchro-flange Spring tether	Synchro-flange Spring tether
Shaft diameter		Solid shaft: 11, 12 mm Hollow shaft: 12, 20, 25, 30 mm	Solid shaft: 11, 12 mm Hollow shaft: 12, 20, 25, 30 mm	Solid shaft: 11, 12 mm Hollow shaft: 12, 20, 25, 30 mm
Max. speed at 70 °C		FAxS90: continuous 6000 min^{-1} short-term 6000 min^{-1} FAxH90: continuous 3600 min^{-1} short-term 6000 min^{-1}	FAMS90: continuous 6000 min^{-1} short-term 6000 min^{-1} FAMH90: continuous 3600 min^{-1} short-term 6000 min^{-1}	FAMS90: continuous 6000 min^{-1} short-term 6000 min^{-1} FAMH90: continuous 3600 min^{-1} short-term 6000 min^{-1}
Starting Torque		< 0,025 Nm	< 0,025 Nm	< 0,025 Nm
Moment of inertia, rotor		15 ... 55 x 10^{-6} kgm^2	15 ... 55 x 10^{-6} kgm^2	15 ... 55 x 10^{-6} kgm^2
Absolute max. shaft load		FAxS90: axial 100 N, radial 200 N FAxH90: axial 50 N, radial 80 N	FAxS90: axial 100 N, radial 200 N FAxH90: axial 50 N, radial 80 N	FAxS90: axial 100 N, radial 200 N FAxH90: axial 50 N, radial 80 N
Shock resistance IEC 68-2-27		500 m/s^2 (6 ms)	500 m/s^2 (6 ms)	500 m/s^2 (6 ms)
Vibration resistance IEC 68-2-6	ST	200 m/s^2 (10 ... 1000 Hz)	100 m/s^2 (10 ... 500 Hz)	100 m/s^2 (10 ... 500 Hz)
	MT	100 m/s^2 (10 ... 2000 Hz)		
Working temperature	ST	–20 ... +90 °C	–10 ... +80 °C	–10 ... +80 °C
	MT	–20 ... +80 °C		
Weight, approx. (ST/MT)		FAxS90: 1100 g/1600 g FAxH90: 700 g/700 g	FAMS90: 1800 g FAMH90: 1200 g	FAMS90: 1600 g FAMH90: 700 g

[1)] Parallel output on request

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