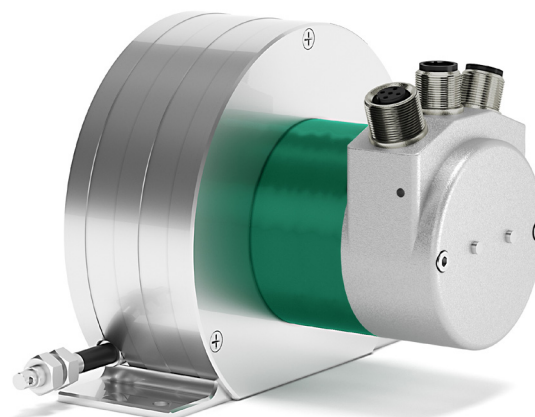


- Integrated absolute encoder
- Fieldbus & Ethernet interfaces: Profibus, CANopen, DeviceNet, Profinet, Powerlink, Modbus/TCP, EtherCAT, Ethernet/IP
- Programmable resolution up to 0,024 mm
- M12 or PG connections
- 5000 & 10000 mm measuring length
- Compact design & easy installation



SFAM1 / SFAM3 FB • SFAM2 / SFAM4 FB

ENVIRONMENTAL SPECIFICATIONS

Protection:	IP65
Operating temperature range:	-40°C +85°C (-40°F +185°F)
Storage temperature range:	-40°C +100°C (-40°F +212°F) (98% R.H. without condensation)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Measuring length:	5000, 10000 mm
Drum circumference:	200 mm
Linearity:	± 0,5 mm
Repeatability:	± 0,1 mm
Travel speed:	2 m/sec max.
Electrical connections:	M12 connectors or PG output
Weight:	~ 0,8 kg

ELECTRICAL SPECIFICATIONS

Resolution:	0,024 mm or scalable via fieldbus
Interface:	Profibus-DP V0, CANopen DS301-DS406, Devicenet Ethernet/IP, EtherCAT, Powerlink, Profinet IO, Modbus/TCP
Programmable parameters:	scaling, counting direction, preset/offset values
Power supply:	+10Vdc +30Vdc
Power consumption :	2,2 W
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4
Functions:	see user manual for each fieldbus

MATERIALS

Housing (draw-wire):	anticorodal, UNI EN AW-6082
Housing (encoder):	die cast aluminium, UNI EN AC-46100
Wire:	stainless steel, non magnetic - UNI EN 4305

Order code

SFAM1 SFAM2	-	XXXXX Ⓐ	-	XXX Ⓑ	-	XXXXX Ⓒ	-	X Ⓓ	-	XXX Ⓔ	/Sxxx Ⓕ
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Ⓐ MEASURING LENGTH

05000 = 5000 mm (SFAM1)

10000 = 10000 mm (SFAM2)

Ⓑ OUTPUT CIRCUIT / POWER SUPPLY

PB2 = Profibus-DP V0, +10Vdc +30Vdc

CB2 = CANopen DS301, DS406, +10Vdc +30Vdc

FD2 = DeviceNet, +10Vdc +30Vdc

PT2 = Profinet IO, +10Vdc +30Vdc

PL2 = Powerlink, +10Vdc +30Vdc

EP2 = Ethernet/IP, +10Vdc +30Vdc

MT2 = Modbus/TCP, +10Vdc +30Vdc

Ⓒ RESOLUTION

08192 = 0,024 mm

Ⓓ CONNECTION POSITION

R = radial

Ⓔ CONNECTIONS

M12 = M12 connectors

PG = PG output (only PB, CB, FD)

Ⓕ CUSTOM VERSION

Order code

SFAM3 SFAM4	-	XXXXX Ⓐ	-	XXX Ⓑ	-	XXXXX Ⓒ	-	X Ⓓ	-	XXX Ⓔ	/Sxxx Ⓕ
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Ⓐ MEASURING LENGTH

05000 = 5000 mm (SFAM3)

10000 = 10000 mm (SFAM4)

Ⓑ OUTPUT CIRCUIT / POWER SUPPLY

EC2 = EtherCAT, +10Vdc +30Vdc

Ⓒ RESOLUTION

08192 = 0,024 mm

Ⓓ CONNECTION POSITION

R = radial

Ⓔ CONNECTIONS

M12 = M12 connectors

Ⓕ CUSTOM VERSION

ACCESSORIES

EC-M12MC-LK-CB-L050:	CANopen/DeviceNet M12 plug cordset with 5 m cable	EC-M12MP-LK-PB-L050:	Profibus M12 plug cordset with 5 m cable
EC-M12MC-LK-CB-L100:	CANopen/DeviceNet M12 plug cordset with 10 m cable	EC-M12MP-LK-PB-L100:	Profibus M12 plug cordset with 10 m cable
EC-M12FC-LK-CB-L050:	CANopen/DeviceNet M12 connector cordset with 5 m cable	EC-M12FP-LK-PB-L050:	Profibus M12 connector cordset with 5 m cable
EC-M12FC-LK-CB-L100:	CANopen/DeviceNet M12 conn. cordset with 10 m cable	EC-M12FP-LK-PB-L100:	Profibus M12 connector cordset with 10 m cable
EC-M12ME-EC-GN-L050:	Ethernet M12 cordset with 5 m cable	EC-M12PP-LK-PBS-L050:	M12 Power supply cordset 5 m (all types)
EC-M12ME-EC-GN-L100:	Ethernet M12 cordset with 10 m cable	EC-M12PP-LK-PBS-L100:	M12 Power supply cordset 10 m (all types)

Document release	Date	Description
1.1	20.11.2025	Introduction of SFAM3 / SFAM4. Removed EC2 interface from SFAM1 and SFAM2.
1.0	September 2023	New order code