

Series

Ax58 PB • Ax58S PB • Ax58C PB

- Standard Profibus encoder
- Single & multi turn versions
- Connection via M12 or PG outlet
- Roundloop function



Ax58 PB • Ax58C PB

ENVIRONMENTAL SPECIFICATIONS

Shock:	250 g, 6 ms acc. to CEI EN 60068-2-27
Vibrations:	10 g, 5-2000 Hz acc. to CEI EN 60068-2-6
Protection:	IP65 (with assembled connection cap)
Operating temperature range:	-25°C +85°C (-13°F +185°F)
Storage temperature range:	-25°C +85°C (-13°F +185°F) (98% R.H.without condensation)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft diameter:	Ø 6, 8, 9.52, 10, 12 mm
Hollow shaft diameter:	Ø 14, 15 mm
Reducing sleeves BR1-xx from Ø 15 mm to:	Ø 6, 8, 9.52, 10, 11, 12 mm
Shaft loading (axial, radial):	40 N max.
Shaft rotational speed:	6000 rpm max.
Bearings life:	400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with shaft loading of 20 N max.)
Electrical connections:	PG outlet or M12 plugs
Weight:	~ 350 g (12,3 oz)

ELECTRICAL SPECIFICATIONS

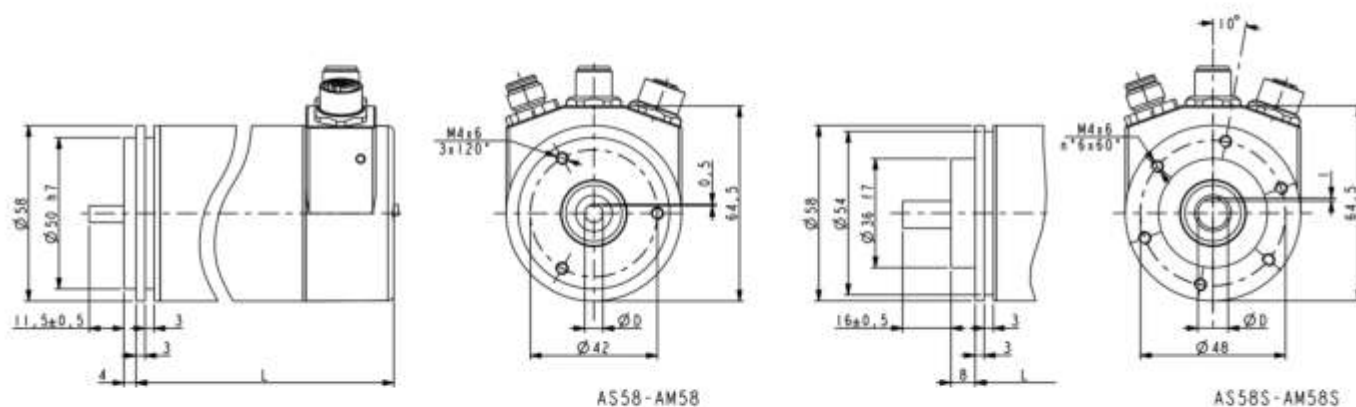
Resolution:	8192 cpr x 4096 turns max.
Accuracy:	± 0,04°
Counting frequency:	100 kHz max.
Power supply:	+10V +30V
Power consumption:	2,6 W max.
Interface:	Profibus-DP V0, Class 2 (RS485)
Programmable parameters:	• counting direction • scaling factor • preset value • offset value
Baudrate:	12 Mbit/sec. max.
Device address:	programmable by Dip-switches
Bus connection:	galvanically separated by opto-couplers
Protection:	against inversion of polarity and short-circuit
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4

MATERIALS

Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305

ACCESSORIES

CC-PB:	connection cap with PG outlet
CC-PB-C:	connection cap with M12 plugs
EC-M12MP-LK-PB-xx:	M12 plug cordset with xx m cable
EC-M12FP-LK-PB-xx:	M12 conn. cordset with xx m cable
EC-M12PP-LK-PBS-xx:	M12 power supply cordset with xx m cable
PAN/PGF:	flexible couplings
BR1:	reducing sleeves
LKM-386:	fixing clamps



SERIES	L	D
AS58	83	6-10h6 8-12g6
AM58	98	
AS58S	82	6-8-10h6 12g6
AM58S	97	
ASCXX	88	14-15H7
AMCXX	98	



Order code – Singleturn

AS58	XX-XX	-	XXX	-	XX	-	X	X	-	X	/Sxxx
AS58S	(a)		(b)		(c)		(d)	(e)		(f)	(g)
ASC58											
ASC59											
ASC60											

(a) RESOLUTION

(BIT SINGLETURN-BIT MULTITURN)

12-00 = 12 bit (4096 cpr x 1 turn)

13-00 = 13 bit (8192 cpr x 1 turn)

(b) OUTPUT CIRCUIT/POWER SUPPLY

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

(c) SHAFT DIAMETER

06 = 6 mm

08 = 8 mm

P9 = 9.52 mm, 3/8"

10 = 10 mm

12 = 12 mm

14 = 14 mm (ASCxx)

15 = 15 mm (ASCxx)

(d) PROTECTION

P = IP65 (with assembled conn. cap)

(e) OPERATING TEMP. RANGE

T = -25°C +85°C (-13°F +185°F)

(f) CONNECTION POSITION

R = radial

(g) CUSTOM VERSION

Order code – Multiturn

AM58	XX-XX	-	XXX	-	XX	-	X	X	-	X	/Sxxx
AM58S	(a)		(b)		(c)		(d)	(e)		(f)	(g)
AMC58											
AMC59											
AMC60											

(a) RESOLUTION

(BIT SINGLETURN-BIT MULTITURN)

12-12 = 12 x 12 bit (4096 cpr x 4096 turns)

13-12 = 13 x 12 bit (8192 cpr x 4096 turns)

(b) OUTPUT CIRCUIT/POWER SUPPLY

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

(c) SHAFT DIAMETER

06 = 6 mm

08 = 8 mm

P9 = 9.52 mm, 3/8"

10 = 10 mm

12 = 12 mm

14 = 14 mm (AMCxx)

15 = 15 mm (AMCxx)

(d) PROTECTION

P = IP65 (with assembled conn. cap)

(e) OPERATING TEMP. RANGE

T = -25°C +85°C (-13°F +185°F)

(f) CONNECTION POSITION

R = radial

(g) CUSTOM VERSION

CONNECTION CAP
(to be ordered separately)CC-PB:
CC-PB-C:Connection cap with PG outlet
Connection cap with M12 connectorsCordsets
(standard lengths, other on request)

EC-M12MP-LK-PB-050:

EC-M12FP-LK-PB-050:

EC-M12PP-LK-PBS-050:

EC-M12MP-LK-PB-100:

EC-M12FP-LK-PB-100:

EC-M12PP-LK-PBS-100:

M12 plug cordset with 5 m cable

M12 connector cordset with 5 m cable

M12 power supply cordset with 5 m cable

M12 plug cordset with 10 m cable

M12 connector cordset with 10 m cable

M12 power supply cordset with 10 m cable

Document release	Date	Description
1.0	11.03.2024	New order code