

Series

Ax58 CB • Ax58S CB • AxC58 CB

- Standard CANopen encoder
- Single & multi turn versions
- Connection via M12 or PG outlet
- Roundloop function & velocity output
- Resistant against magnetic fields



Ax58 CB • AxC58 CB

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

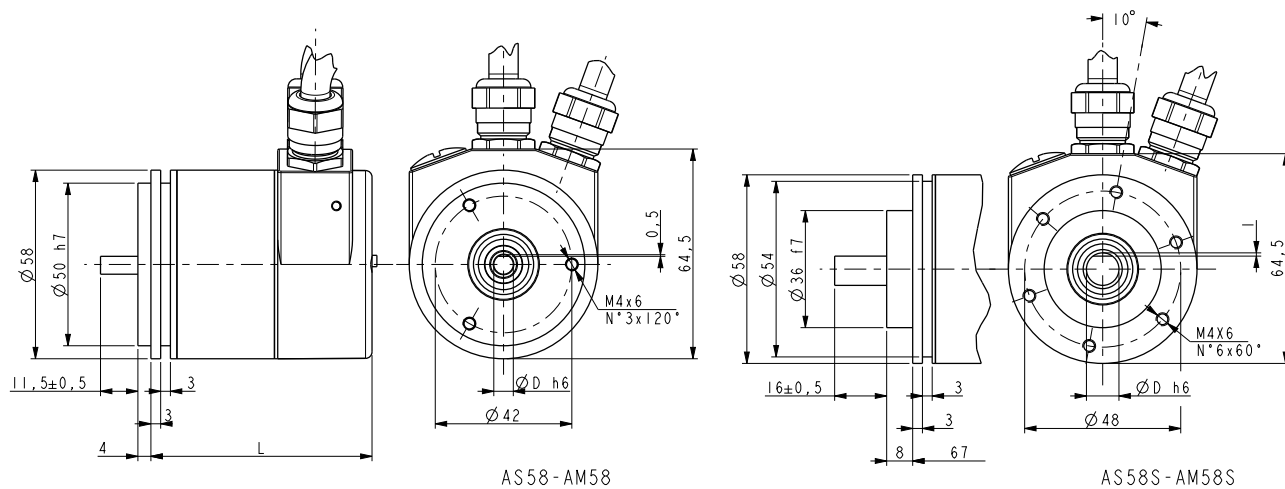
Resolution:	8192 cpr x 4096 turns max.
Accuracy:	± 0,04°
Counting frequency:	100 kHz max.
Power supply:	+10V +30V
Power consumption:	2,6 W max.
Interface:	CANopen DS301, DS406, Class 2 (RS485)
Programmable parameters:	• counting direction • scaling factor • preset value • two software limit switches
Baudrate:	programmable by Dip-switches
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
Optoelectronic life:	100.000 h min.

MATERIALS

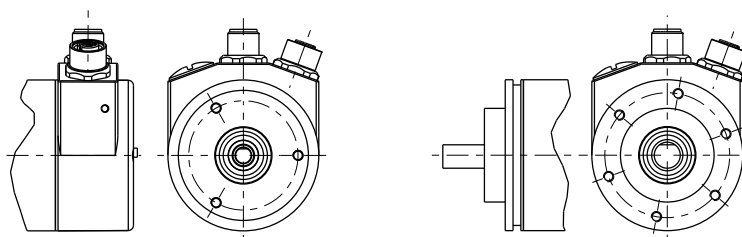
Flange:	anticorodal, UNI EN AW-6082
Housing:	anticorodal, UNI EN AW-6082
Bearings:	ABEC 5
Shaft:	stainless steel, non magnetic, UNI EN 4305
Light source:	GaAl diodes

ACCESSORIES

CC-CB:	connection cap with PG outlet
CC-CB-C:	connection cap with M12 plugs
EC-M12MC-LK-CB-xx:	M12 plug cordset with xx m cable
EC-M12FC-LK-CB-xx:	M12 conn. cordset with xx m cable
PAN/PGF:	flexible couplings
BR1:	reducing sleeves
LKM-386:	fixing clamps



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



ASC58-AMC58

ASC59-AMC59

ASC60-AMC60

Order code - Singleturn

AS58 AS58S ASC58 ASC59 ASC60	XX-XX (a)	-	XXX (b)	-	XX (c)	-	X (d)	X (e)	-	X (f)	/Sxxx (g)
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(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 CB2 = CANopen, +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
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Order code - Multiturn

AM58 AM58S AMC58 AMC59 AMC60	XX-XX (a)	-	XXX (b)	-	XX (c)	-	X (d)	X (e)	-	X (f)	/Sxxx (g)
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(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 CB2 = CANopen, +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
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CONNECTION CAP (to be ordered separately)	
CC-CB:	Connection cap with PG outlet
CC-CB-C:	Connection cap with M12 connectors

Cordsets (standard lengths, other on request)	
EC-M12MC-LK-CB-050:	M12 plug cordset with 5 m cable
EC-M12FC-LK-CB-050:	M12 connector cordset with 5 m cable
EC-M12MC-LK-CB-100:	M12 plug cordset with 10 m cable
EC-M12FC-LK-CB-100:	M12 connector cordset with 10 m cable

Document release	Date	Description
1.0	June 2025	New order code