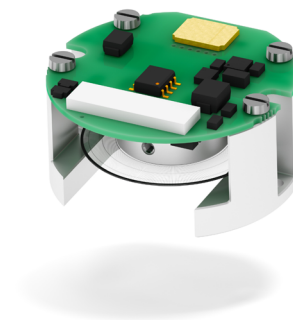




- Absolute frameless encoder
- Precise optical sensing
- Singleturn resolution up to 22 bit
- Electronic multiturn counter
- BiSS-C/SSI interface + incremental track 1Vpp
- High temperature version on request

Applications:

- Servomotor feedback
- Robotics
- Drones/UAV
- Electromedical devices



AMM36

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:	IP00
Operating temperature range:	-25°C +85°C (-13°F +185°F) (-25°C +115°C, -13°F +239°F on request)
Storage temperature range:	-25°C +85°C (-13°F +185°F)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Hollow shaft diameter:	Ø6, 6.35 mm
Shaft rotational speed:	10000 rpm max. (mechanical)
Axial shaft run-out:	±50 µm max.
Radial shaft run-out:	20 µm max.
Electrical connections:	PCB connector (connection cable to be ordered separately)
Weight:	< 20 g (0,70 oz) (without connection cable)

ELECTRICAL SPECIFICATIONS

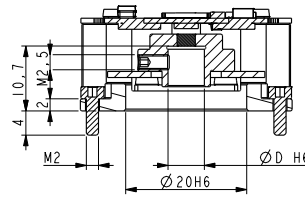
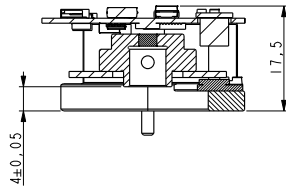
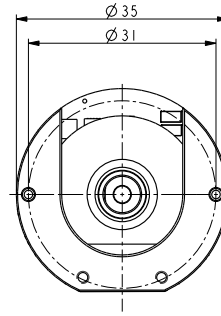
Resolution:	absolute: max. 22 bit (4194304 cpr) x 65536 rev. incremental: 256 PPR AB /AB
Accuracy:	< ±0,05° typ. (with standard disk) < ±0,01° typ. (with glass disk)
Output circuit:	BiSS-C (clock max. 10MHz) + 1Vpp AB /AB sin/cos SSI (clock 100 kHz ÷ 4MHz, T _p = 20µs) + 1Vpp AB /AB sin/cos RS485 (4 Mbit/s max.)
Counting frequency:	200 kHz max. (on 256 PPR incr. track) position refresh rate 5µs
Power supply:	+5Vdc ± 5% (multiturn counter backup: 3-6Vdc)
Power consumption:	0,5 W (multiturn counter backup: 30 µA max.)
EMC:	electro-magnetic immunity, EN 61000-4-2 EN 61000-4-4

MATERIALS

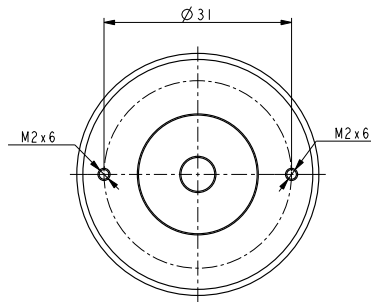
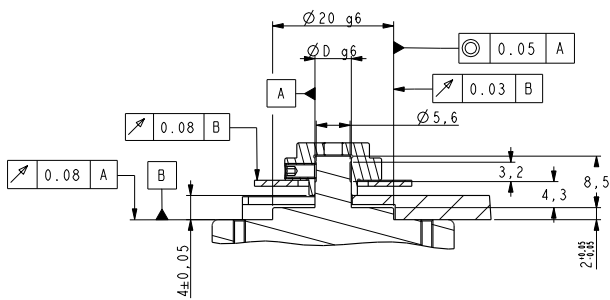
Encoder body:	anticorodal, UNI EN AW-6082
Disk hub:	UNI EN 4305 + Mylar / UNI EN 4305 + glass

ACCESSORIES

EC-DF19-LK-TF12-xx:	Connection cable, xx m
PF5027:	Disk hub for ø 6 mm (spare part)
PF5037:	Disk hub for ø 6.35 mm (spare part)
PF5035:	Glass disk hub ø 6 mm (spare part)
PF5036:	Glass disk hub ø 6.35 mm (spare part)
PF5029:	Disk spacer tool



AMM36



AMM36 - Mounting requirements

Note:
Precise alignment of the encoder is provided by the flange pilot (ø20 mm) which guides the encoder module to the correct position on the mechanical interface.

Order code

AMM36	-	XXX	-	XX	-	XXX	-	X	-	XX	/Sxxx
		Ⓐ		Ⓑ		Ⓒ		Ⓓ		Ⓔ	Ⓕ

Ⓐ BIT SINGLETURN 17 = 17 bit (131072 cpr) 21 = 21 bit (2097152 cpr) 22 = 22 bit (4194304 cpr) 17G = 17 bit (131072 cpr), glass disk 21G = 21 bit (2097152 cpr), glass disk 22G = 22 bit (4194304 cpr), glass disk	Ⓑ BIT MULTITURN 00 = singleturn 16 = 65536 turns	Ⓒ INTERFACE SC1 = BiSS-C + 1Vpp (5Vdc) BG1 = SSI, binary MSB aligned + 1Vpp (5Vdc) JP1 = RS485 (5Vdc)	Ⓓ CONNECTIONS X1 = Hirose flat connector (mating type: DF19-14-1C)
Ⓓ SHAFT DIAMETER O6 = 6 mm P6 = 6.35 mm			Ⓕ CUSTOM VERSION

Document release	Date	Description
1.1	13.01.2023	Accessories and Order code update