



Enkoder absolutne AFS/AFM60 EtherNet/IP, Rotary

AFM60A-S1IB018X12



Nazwa modelu > **AFM60A-S1IB018X12**

Numer części > **1055331**



Produkt może różnić się od ilustracji

At a glance

- High-resolution, 30-bit absolute encoder (18 bit singleturn and 12 bit multiturn)
- Device Level Ring (DLR functionality)
- Extensive diagnostics: Min/max values for temperature, position, speed.
Operating hours counter, display of flags, alarms and warnings using e.g. a fault header (32 bit)
- Status display via 5 duo LEDs
- Rotary axis function
- IP address via DHCP / DEC switches
- Ethernet/IP interface (extended profile 0x22)
- Function block

Your benefits

- DLR functionality for reliability with simple maintenance and a simple adaptation to existing network topologies
- Lower installation costs due to fewer external switches
- High level of productivity thanks to superior diagnostics with 32-bit fault header, fast communication and high level of redundancy
- Optimal machine availability thanks to early warning and fault detection system
- Simple setting for various applications thanks to rotary axis function
- Simple installation due to user-friendly on-board configuration assembly
- Industrial-application design for use in particularly cramped space conditions



Wydajność

Maks. liczba kroków na obrót:	262.144
Maks. liczba obrotów:	4.096
Resolution power:	262.144 x 4.096
Rozdzielczość:	18 bit x 12 bit
Granice błędu:	± 0,03 °
Dokładność powtarzania:	0,002 °
Odchylenie kroku pomiarowego:	± 0,002 °
Initialization time:	Ca. 12 s

!Mechanical data!

Mechanical interface:	Walek, Kołnierz serwomotoru
Średnica wałka:	6 mm
Mass:	0.2 kg
Moment rozruchowy:	0,5 Ncm (+20 °C)

Roboczy moment obrotowy:	0.3 Ncm (+20 °C)
Permissible Load capacity of shaft:	40 N (osiowa), 80 N (kątowe)
Maximum operating speed:	9.000 /min ¹⁾
Moment bezwładności wirnika:	6.2 gcm ²
Żywotność łożyska:	3.0 x 10 ⁹ revolutions
Maks. przyspieszenie kątowe:	500.000 rad/s ²
Shaft material:	Stainless steel
Flange material:	Aluminium
Materiał obudowy:	Aluminium
WELLENART:	Walek
:	Kołnierz serwowatora

¹⁾ Self warming of 3.3 K per 1000 revolutions/min when applying note working temperature range

!Electrical data!

Operating voltage range:	10 V DC ... 30 V DC
Power consumption max.:	3 W
MTTFd: mean time to dangerous failure:	80 a (EN ISO 13849-1) ¹⁾
Sposób przyłączenia:	3 x connector M12, 4-pin, osiowa
Zabezpieczenie przed zmianą biegunowości:	1

¹⁾ This product is a standard product and does not constitute a safety component as defined in the Machinery Directive.

Calculation based on nominal load of components, average ambient

temperature 40°C, frequency of use 8760 h/a. All

electronic failures are considered hazardous. For more information, see document no. 8015532.

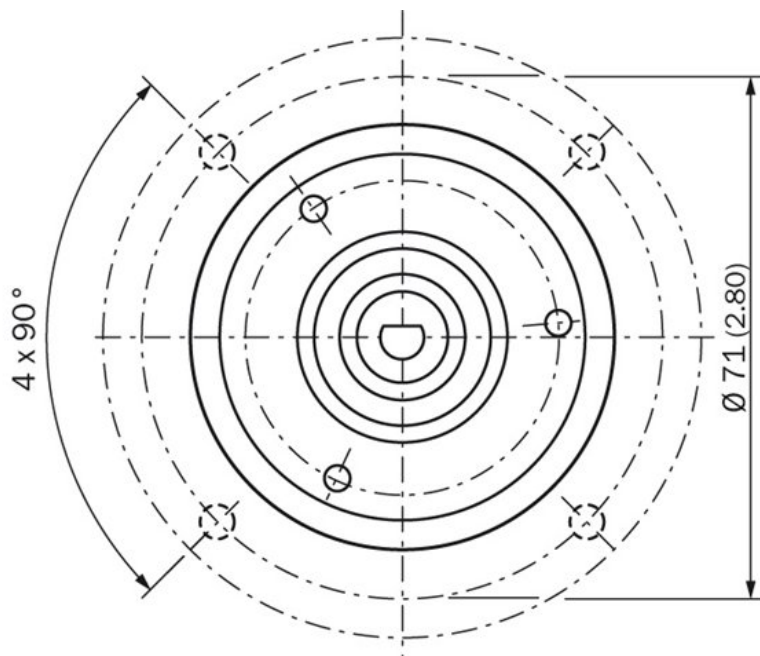
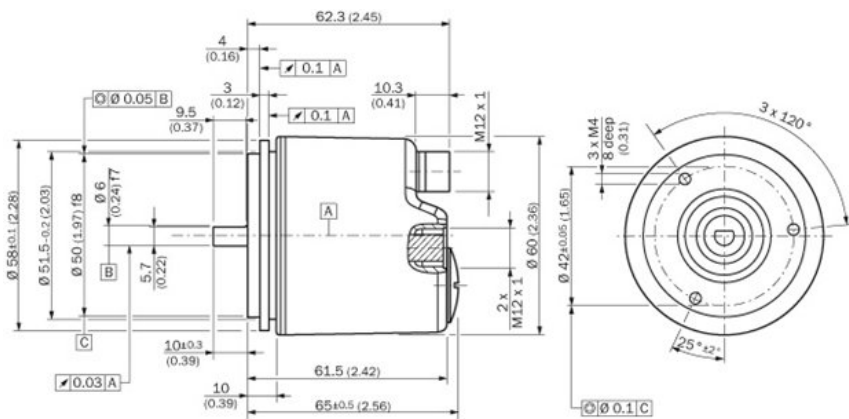
Interfejsy

Electrical interface:	EtherNet/IP
Bus interface:	EtherNet/IP IEC 61784-1
Data transmission rate (baud rate):	10 Mbit/s / 100 Mbit/s
Encoder profile:	0 x 22
RPI (requested packet interval):	5 ms ... 750 ms
DLR (Device Level Ring):	1
Endless operating functionality:	1

Dane otoczenia

Kompatybilność elektromagnetyczna::	(according to EN 61000-6-2 and EN 61000-6-3) ¹⁾
Rodzaj zabezpieczenia:	IP 65 (according to IEC 60529), shaft side, IP 67 (according to IEC 60529), housing side
Dopuszczalna wilgotność względna:	90 % (condensation of the optical scanning not permitted)
Working temperature range:	-30 °C ... +85 °C
Storage temperature range:	-40 °C ... +100 °C, without package
Odporność na uderzenie:	100 g, 6 ms (according to EN 60068-2-27)
Odporność na drgania:	30 g, 10 Hz ... 2.000 Hz (according to EN 60068-2-6)

¹⁾ ²⁾ With mating connector fitted



All dimensions in mm (inch)

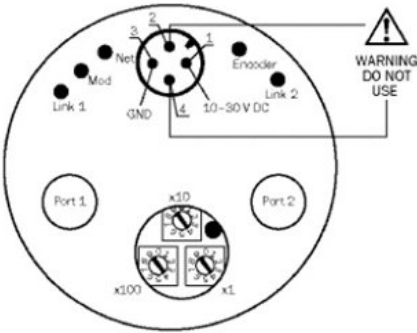
PIN assignment

M12 – 4 x D coding



Port 1				
Signal	T x D+	R x D+	T x D-	R x D-
Pin	1	2	3	4

Port 2				
Signal	T x D+	R x D+	T x D-	R x D-
Pin	1	2	3	4



M12 – 4 x A coding



Power supply				
Signal	10 ... 30 V	Not connected	GND	Not connected
Pin	1	2	3	4

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