

VD58E279

Encoder • Absolutely

Encoder, absolute, programmable, Ø58mm 99 long, hollow shaft 15mm, 10-30V DC, -40-85°C, M12 connector 4-pin, IP67, steel, galvanized steel)



An encoder or rotary encoder is a device that converts a rotary movement into a digital output signal that can be processed via downstream evaluation electronics. Our encoders all work on the principle of optical scanning. Inside the device there is an impulse disc on which, depending on the encoder, there is a clear (absolute) or repeating (incremental) line graduation that is scanned by an optical system. Turning the encoder shaft causes the impulse disc to rotate, which results in a corresponding scanning signal from the optical system. This is then converted into encoder-specific output signals (e.g. multiturn, RS422, etc.) by integrated electronics. Shaft couplings, resilient base (for mounting brackets or flanges) are used for professional mounting in numerous applications. In addition, the encoder shaft can be fitted with measuring wheels or pinions in various versions and sizes. Typical application examples include angular measurement on bending machines, length measurement on conveyor systems or speed measurement on winding systems.

Electrical features

Type of electrical connection	Connector M12
Setting procedure	Application software
No-load current	100 mA
Shaft length	15
Number of pins	4
Absolute position value collection	Multiturn
Measurement principle	Optical
Supported communication interface	Ethernet
Operating voltage (DC)	10 - 30 V
Digital resolution singleturn	13 bit
Digital resolution multiturn	12 bit
ardTEEL_Schutzfunktionen	Short circuit protection

Mechanical features

Start-up torque	0.05
Type of encoder shaft	Hollow shaft
Axial load capacity of shaft	30 N
Encoder size	58
Diameter	58 mm
Shaft diameter	15 mm
Weight	375 g
Length	99.2 mm
Max. rotation speed	3000 upm
Surface	Galvanized
Radial load capacity of the shaft	30 N
Shock resistance, acceleration	100 g
Shock resistance, pulse time	1 ms
Degree of protection (IP)	IP67
Moment of inertia	30 gcm ²
Vibration resistance, acceleration	30 g
Housing material	Steel
Shaft bearing	Ball bearing
Vibration resistance Frequency	16 - 2000 Hz
Ambient temperature	-40 - 85 °C

Other features

Range of functions	Wellenabdichtung
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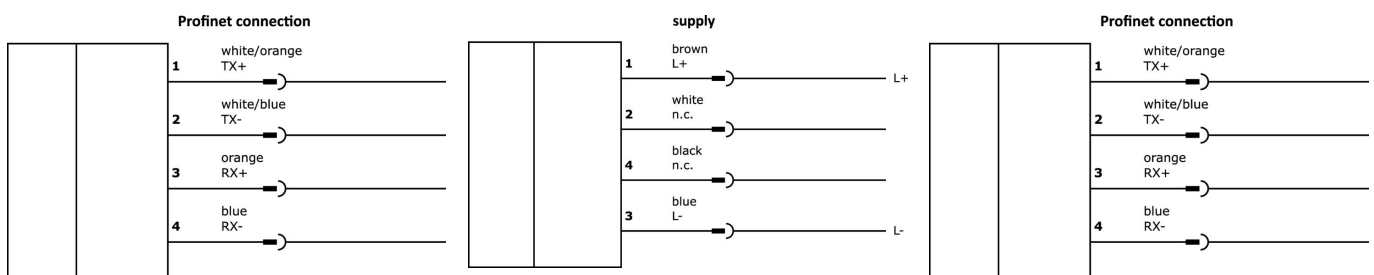
Classification

ETIM 8	EC001486 Rotary encoder
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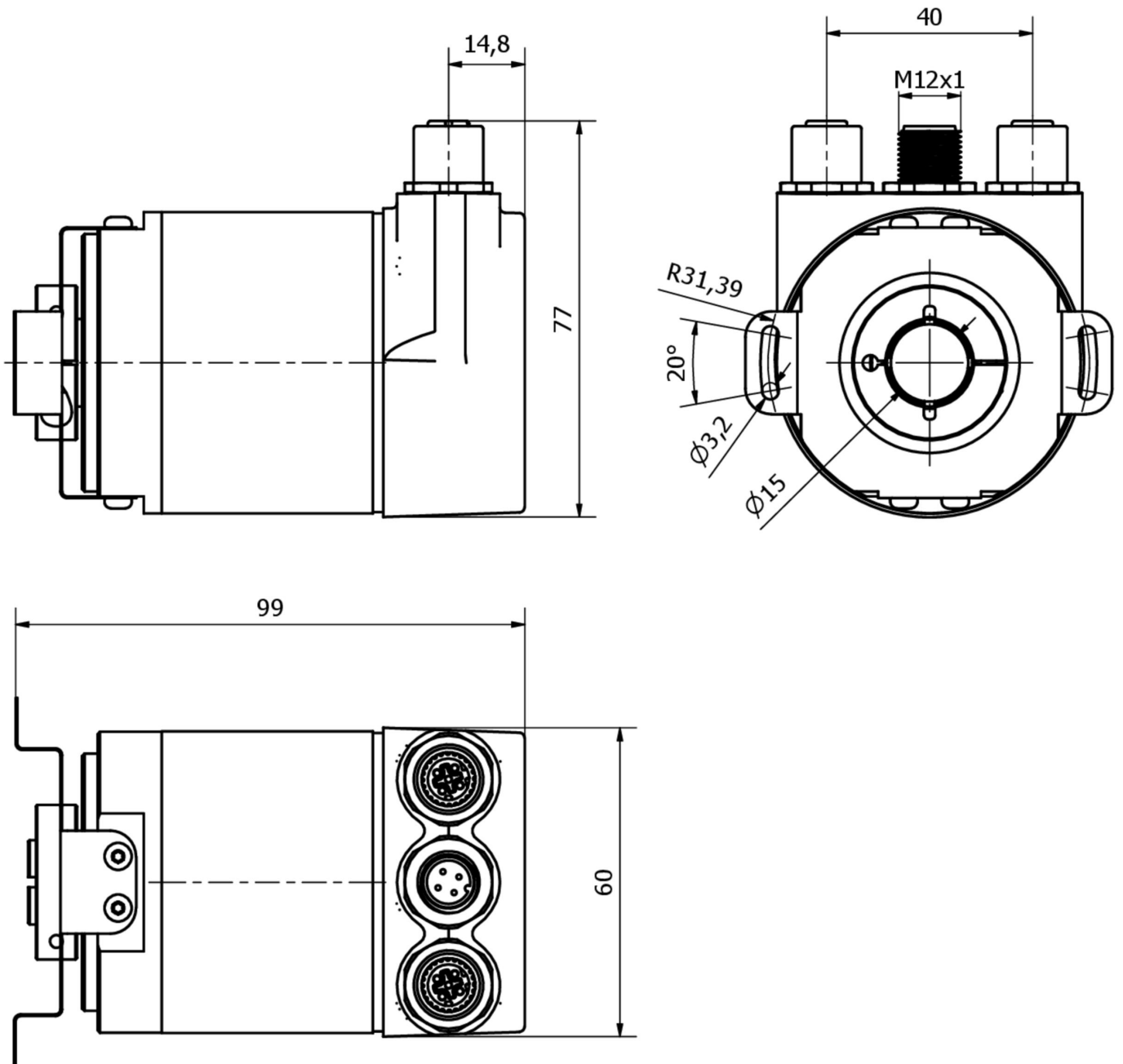
More

IPF Product Group	520 encoders
packaging dimensions	210 x 138 x 95 mm
gross weight	661 g
Customs tariff number	90318020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Dimensional drawing



Extract accessories program

VK200321



Connection cable, 2m, M12
Female (socket) 4pin Angular, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 250V, -40-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK200325



Connection cable, 2m, M12
Female (socket) 4pin Straight, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø4.7mm, 250V, -40-90°C, IP67, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK205321



Connection cable, 2m, M12
Female (socket) 4pin Angular, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø5.5mm, 250V, -25-90°C, IP67, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicon...

VK205325



Connection cable, 2m, M12
Female (socket) 4pin Straight, Free conductor end, 4x0.34mm², PUR (Polyurethane), Ø5.5mm, 250V, -25-90°C, IP67, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silico...

VK108F25



Data cable, connection cable, 1m, M12 connector 4-pin straight, D-coding, RJ45 connector 8-pin straight, 4x0.14mm², category 5E, -40-75°C, TPU, shielded

VKA08F25



Data cable, connection cable, 10m, M12 connector 4-pin straight, D-coding, RJ45 connector 4-pin straight, 4x0.14mm², category 5E, -40-75°C, TPU, shielded

VK10E254



Data cable, Connection cable, 1m, M12 Male (connector) 4pin Straight, D-coding, M12 Male (connector) 4pin Straight, D-coding, 0.14mm², Category 5E, -40-75°C, TPU, Shielded

VK20E255



Data cable, Connection cable, 2m, M12 Male (connector) 4pin Straight, D-coding, M12 Male (connector) 4pin Straight, D-coding, 4x0.14mm², Category 5E, -40-75°C, TPU, Shielded

You can find further accessories on our homepage



Installation

Mounting / installation may only be carried out by a qualified electrician!



Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

Safety warnings

/ Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

/ Never use these devices in applications where the safety of a person depends on their functionality.

/ Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com