

## VD58C320

### Encoder • Absolutely

Encoder, absolute, Ø58mm 76 long, solid shaft 10mm, 4096 pulses, 10-30V DC, -25-85°C, SSI, plug connector M23 12-pin, IP65, aluminum



The VD58C320 is an encoder that detects rotational movements and is an angle measuring device. As an absolute encoder, it can return its accuracy at any time during operation. The position is inquired via a Gray Code RS422 interface. One revolution is resolved to 12 bits, each additional revolution to 12 bits. A 10 mm solid shaft is available for the mechanical connection.

#### Electrical features

Type of electrical connection	Connector M23
Rated switching current	20 mA
Increments per revolution	4096
No-load current	50 mA
Shaft length	20
Number of pins	12
Absolute position value collection	Multiturn
Measurement principle	Optical
Supported communication interface	Gray Code   SSI
Operating voltage (DC)	10 - 30 V
Digital resolution singleturn	12 bit
Digital resolution multiturn	12 bit
ardTEEL_Schutzfunktionen	Reverse polarity protection   Short circuit protection

**Mechanical features**

Start-up torque	0.03
Type of encoder shaft	Full shaft
Axial load capacity of shaft	20 N
Encoder size	58
Diameter	58 mm
Shaft diameter	10 mm
Flange	Clamping flange
Cable infeed	radial
Length	76 mm
Max. rotation speed	10000 upm
Radial load capacity of the shaft	40 N
Shock resistance, acceleration	200 g
Shock resistance, pulse time	6 ms
Degree of protection (IP)	IP65
Moment of inertia	20 gcm <sup>2</sup>
Vibration resistance, acceleration	10 g
Flange material	Aluminum
Housing material	Aluminum
Vibration resistance Frequency	16 - 2000 Hz
Ambient temperature	-25 - 85 °C

**Other features**

Range of functions	Wellenabdichtung
Relative air humidity (non-condensing)	0 - 95 %

**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	500 g
Customs tariff number	90318020
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

**Extract accessories program****AV000029**

accessories, Mounting angle bracket, 80x40x90mm, Angle, Aluminum

**AV000032**

accessories miscellaneous, Helix coupling for encoder, Ø25mm 32long, Aluminum

**AV000056**

accessories miscellaneous, Helix coupling for encoder, Ø25mm 32long, Aluminum

**AV000149**

Accessories, connection cable, 2m, M23 socket 12-pin straight, free cable end, 10-core, metal, 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.