

Series MOL40 / Optoelectronic Encoder Series

- Housing \varnothing 40 mm
- 10 to 3600 ppr.
- 2 channels and index
- Supply voltage 5V, 12 bis 24V
- Clutch included in delivery
- Preference types from stock

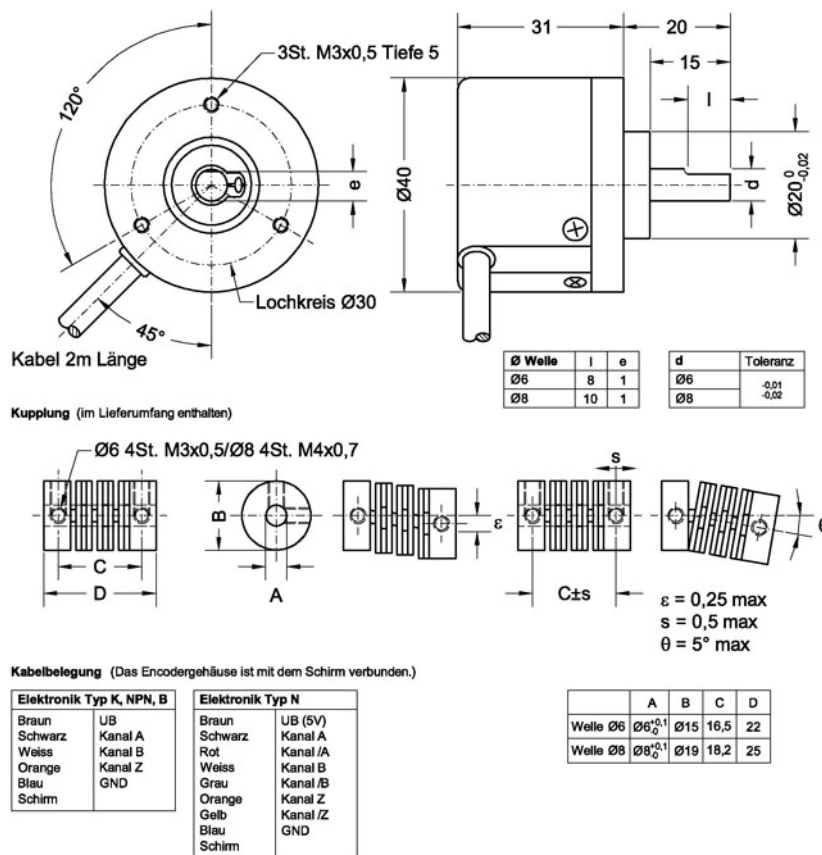
This well-priced, compact encoder covers a wide range of applications.

Rugged design features aluminium housing, metal shaft and ball bearings.

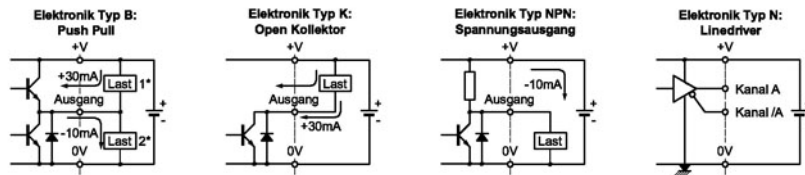
Available outputs: „Push-Pull“, „Open Collector“, „Voltage“ and „Linedriver“.



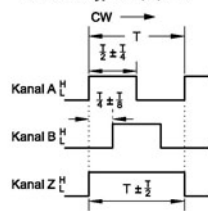
Drawing



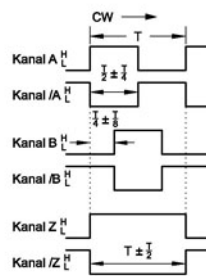
Series MOL40 / Optoelectronic Encoder Series



Timing und Spannungspegel
Elektronik Typen: B, K, NPN



Elektronik Typ N



Rechtsdrehende Achse (Blickrichtung auf Welle)

Elektronik	Flankenanstieg
B, K	1µs bei Isink 20mA und 2m Kabel
NPN	12-24V bei 820 Ohm
N	5V bei 4,7 kOhm
	0,5µs bei Isink 20mA und 2m Kabel

Elektronik	Signalpegel
B	Low bei 30mA max 0,4VDC High bei 10mA min Ub -1,5VDC
K	Low bei 30mA max 0,4VDC
NPN	Low bei 10mA max 0,4VDC
N	Low bei 20mA max 0,5V High bei -20mA min Ub 2,5V

Electrical Data	NPN / K / B	N
Resolution	10 bis 3600 ppr	
Channels	A, B, Z	A / A, B / BZ / Z
Frequency response	180 kHz	
Supply voltage	5V ± 5% / 11,4V - 25,2V	5V ± 5%
Current consumption (no load)	60 mA	50 mA

Mechanical Data	
Bearing	ball bearing
Maximum speed	5000 rpm
Moment of inertia	2 x 10 ⁶ kg m ²
Starting torque	0,4 Ncm
Weight	120 g

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Other Data

Protection class	IP50
Betriebstemperatur	-10 .. +70° C
Operating temperature	-25 .. +85° C
Housing material	Aluminium
Disc material	Plastic
Vibration	1,5mm amplitude 10-55Hz in X, Y, Z direction 2h
Maximum shock	50 g

Options and Order Description

Description	Series	Options				
Type	MOL40					
Shaft Ø 6 mm (Standard)		6 8				
Pulses/rev.: 10, 50, 100, 256, 360, 500, 1000, 1024 , 1200, 1500, 1800, 2000, 2048, 2500, 3000, 3600			10 ... 1024 ... 3600			
UB: 12-24V UB: 5V				1224 5		
Output signal: 2 channels with index					BZ	
Electronics: Push Pull** Open Collector Voltage Linedriver*						B K NPN N
Example Order Code:	MOL40	6	3600	1224	BZ	B

*) Output-type N (Linedriver) is only available with 5V supply voltage. For all other output electronic types the preferred supply voltage is 12 - 24V.

**) Electronic type B is compatible with output K and NPN. It is a preference model and available from stock.

Preference models (bold) are available from stock.

Our speciality are custom solutions for reasonable prices, even for small quantities

Examples: Mounting of gear wheels and other mechanical parts, assembling of cables, connectors and more.
Please ask us.

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.

06. May 2010. All specifications are subject to change without notice.