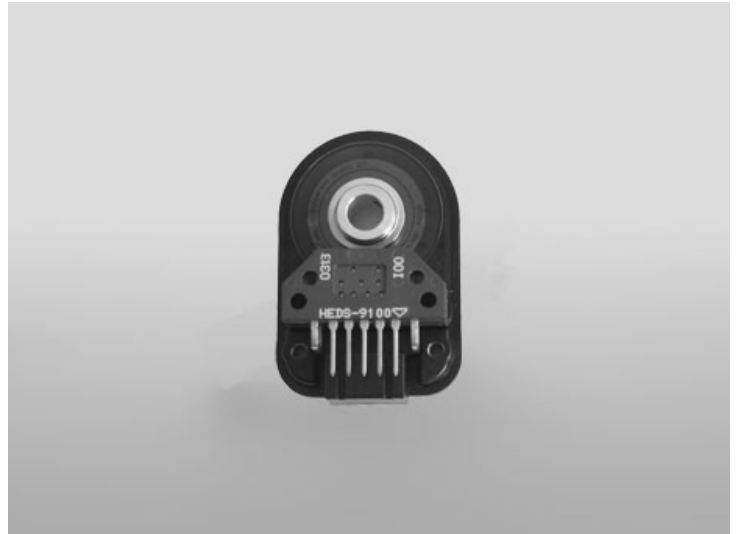


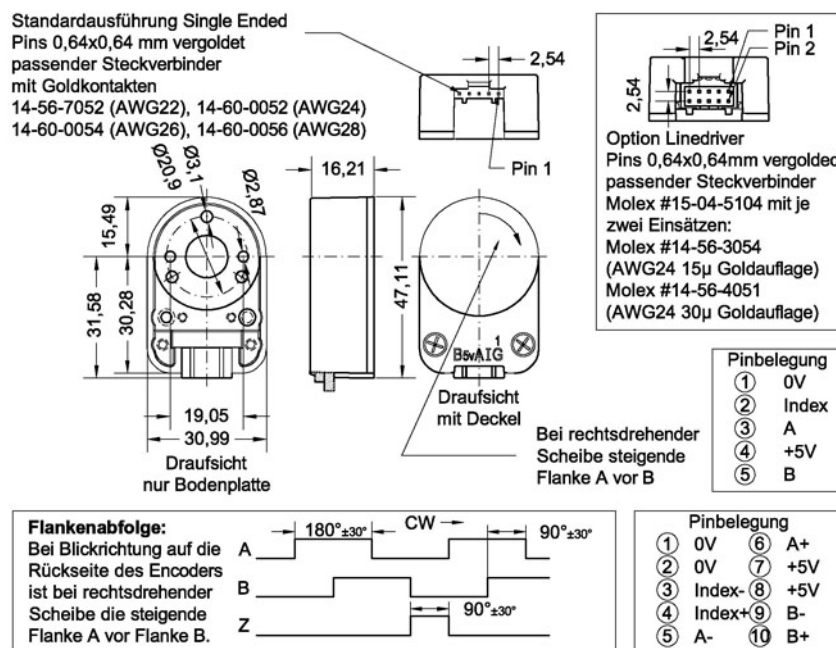
## Series TPT / Optoelectronic Encoder

- Flat installation height < 17 mm
- Operating voltage 5V, TTL signal
- Resolution up to 1024 ppr
- Options: Linedriver, Index
- Standard types from stock

That very flat encoder uses the shaft of the application. Therefore are no additional costs for a clutch. Custom specific adaptations of housing and shaft allows an optimal integration into the application.



## Dimensional Drawing and Interface



## Series TPT / Optoelectronic Encoder

Electrical Data	TTL Output	Option D (Linedriver)
Pulses	50 ... 1024 ppr	
Output channels	A, B (index optional)	
Limit frequency	100 kHz	
Supply voltage	5 V $\pm$ 10% (Ripple < 100mV Vpp)	
Current consumption	< 85 mA	< 95 mA

Mechanical Data	
Maximum mechanical revolution	10 000 rpm
Maximum acceleration	250 000 rad/s <sup>2</sup>
Permissible axle clearance	< $\pm$ 0,25 mm
Permissible excentricity + radial clearance	< 0,1 mm

Other Data	
Protection class	IP40
Operating temperature	-40 ... + 100° C
Storage temperature	-40 ... + 100° C
Housing material	Polycarbonate with 20% glas share
Disc material	Mylar
Vibration strength ]	20 g ( 50 Hz - 20 kHz)
Weight	22,6 g

## Series TPT / Optoelectronic Encoder

### Options and Order Description

Description	Series	Options (Code)					
Type	TPT						
Shaft $\varnothing$ <b>6,35mm and 6mm</b> (Standard) Optional: 2, 3, 1/8", 4, 5, 8, 10 mm		<b>6,35</b> ... 10					
Pulses / Rev. 50, 96, 100, 200, 250, 256, <b>360</b> , 400, 500 Index possible			50 ... <b>360</b> ... 500				
Pulses / Rev. 540, <b>1000</b> , 1016, 1024 Index not possible			540 ... 1024				
Supply voltage 5V				5			
Output signal: 2 channels: B, with index: BZ (availability depends on resolution)					B BZ		
Electronic: TTL (Standard) Linedriver						TTL N	
Housing: Standard A with trough hole B							A B
Example Order Code:	TPT	<b>6,35</b>	<b>360</b>	5	BZ	TTL	

Preference types (bold) from stock.

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

Examples: Customized shafts and housings. Mounting of gear wheels and other mechanical parts, assembling of cables, connectors and more. Please contact 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.

19. August 2004. All specifications are subject to change without notice.