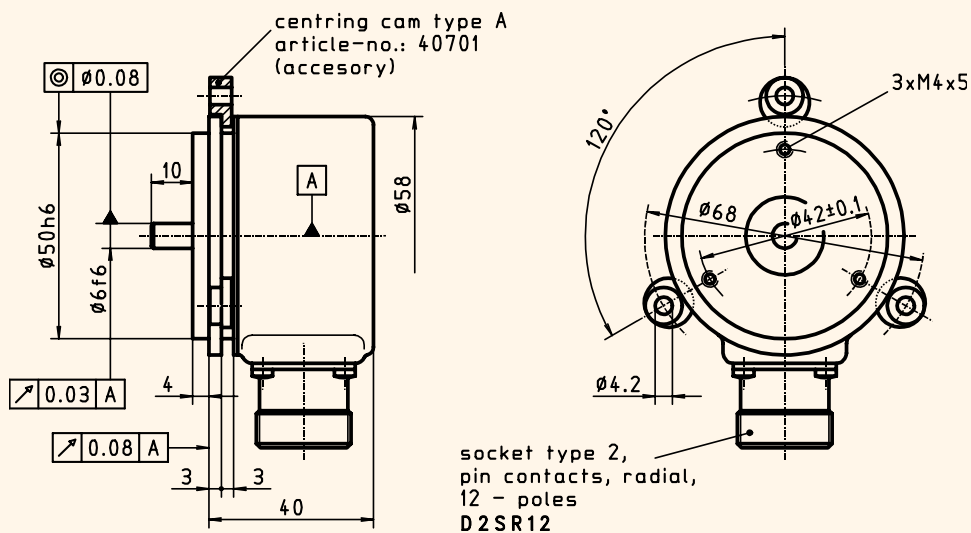


# Absolute - Encoder *Analogue-output* ATD 2A B14 Y 1



## Qualities:

- Absolut-Encoder with analogue-output-signal
- $U_{out} = 0 - 10$  VDC to correspond to  $0 - 360^\circ$  mech. angle of rotation *AU-version*
- Centering seat  $\varnothing 50$ , mounting punch circle  $\varnothing 68$
- Connector version



ATD 2.. B14 Y 1

drawing-no.: 028 - 7 Y 1

## Mechanical data:

Housing		light-alloy metal, black, powder coated	
Design style	<b>B14</b>	B14	
Protective class	<b>IP65</b>	IP 65	according to DIN 40 050, IEC 529
Construction principle		LED with glas slotdisc	
max. speed ( mechanical )	$n_{max}$	$\leq 12000$ rpm	
Admissible shaft load	axial	$\leq 10$ N	
	radial	$\leq 20$ N	( at shaft end )
Starting torque	at $20^\circ$ C	$\leq 1$ Ncm	
Vibration	55... 2000 Hz	$\leq 100$ m/s <sup>2</sup>	according to DIN IEC 68, part 2-6
Shock	11 ms	$\leq 300$ m/s <sup>2</sup>	according to DIN IEC 68, part 2-27
Moment of inertia ( rotor )		approx. 15 gcm <sup>2</sup>	
Shaft diameter	d	6 mm	
Weight		approx. 500 g	

# Absolute - Encoder *Analogue-output*

## ATD 2A B14 Y 1



### Electrical data:

• Output signal	<b>360G</b>	360° mech. angle of rotation to correspond to 10 VDC <b>AU-version</b> resp. 20mA <b>AI-version</b>
• Execution of electronic	<b>AU</b>	Output stage: <b>Analogue</b> ( voltage output ) U <sub>out</sub> = 0 - 10 VDC ( not shortening proof ) 1024 ( 10 Bit )
• Internal resolution	<b>BI</b>	Binär-Code
• Internal type of code		15 - 30 VDC ( poling error safe )
Supply voltage	U <sub>B</sub>	20 kΩ
Load resistance	R <sub>load</sub>	≤ 15 m
Permissible cable length		
• Type of connection	<b>D2SR12</b>	socket type 2, pin contacts, radial, 12-poles
• Operating temperature range	<b>S</b>	0 °C to + 70 °C

### Options:

• Output signal	<b>35G</b>	35° mech. angle of rotation to correspond to 10 VDC <b>AU-version</b> resp. 20mA <b>AI-version</b>
• Execution of electronic	<b>AI</b>	output stage: <b>Analogue</b> ( current output ) I <sub>out</sub> = 4 - 20 mA
• Type of connection	<b>D2SA12</b>	socket type 2, pin contacts, axial, 12-poles
• Further options upon request		

### Accessories:

Connector, for version <b>D2S..12</b>	<b>S2BG12</b>	connector type 2, bush contacts, straight, 12-poles article-no.: 40701-3
Centring cam-set type A ( 3 pcs. )		

### Connection table:

<i>PIN-no.</i>	<i>signals</i>	<i>explanation</i>
PIN 1	= NC	
PIN 2	= NC	
PIN 3	= NC	
PIN 4	= 0 V <sub>out</sub>	< >
PIN 5	= + U <sub>out</sub> resp. + I <sub>out</sub>	< >
PIN 6	= NC	<i>Output voltage resp. -current vising at clockwise rotation when looking at the end of the shaft.</i>
PIN 7	= NC	
PIN 8	= NC	
PIN 9	= shilding/housing	
PIN 10	= 0 V	
PIN 11	= NC	
PIN 12	= + U <sub>B</sub>	

### Ordering example:

<b>ATD 2A</b>	<b>B14</b>	<b>Y 1</b>	<b>360G</b>	<b>AU</b>	<b>BI</b>	<b>D2SR12</b>	<b>S</b>	<b>6</b>	<b>IP65</b>
Absolut-Encoder ATD 2A	Design style B14	Mechanical variante Y 1 = look at the drawing	Steps / rev. / no. of turns 360° to correspond to 10 VDC <b>AU</b> resp. 20 mA <b>AI</b>	Execution of electronic Analogue ( voltage output )	Output code Binär-Code	Type of connection socket type 2, pin contacts, radial, 12-poles	Operating temperature 0 °C to +70 °C	Shaft diameter 6 mm	Protective class IP 65