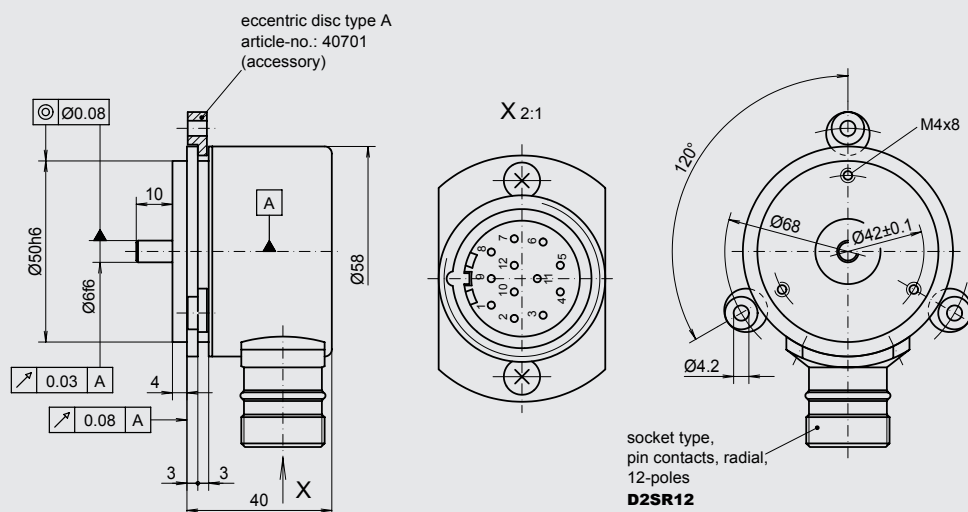


Absolute encoder
with shaft analogue-output



Features

- Absolute encoder with analogue-output
- $U_{out} = 0 - 10$ VDC (correspond to 0 - 360° mech. angle of rotation)
- Centering seat $\varnothing 50$ mm, mounting punch circle $\varnothing 68$ mm
- Connector version



drawing-no.: 028- 7 Y 1

Mechanical data

Design	B14	B14
Housing	aluminium, black, powder coated	
Protection	IP 65	according to DIN EN 60 529 IP65
Construction principle	LED with glass slot disc	
max. revolution (mechanical)	$n_{max} \leq 12\,000 \text{ min}^{-1}$	
Permissible shaft load	axial $\leq 20 \text{ N}$ radial $\leq 40 \text{ N}$	(at shaft end)
Starting torque	at 20° C $\leq 1 \text{ Ncm}$	
Vibration	55... 2000 Hz $\leq 100 \text{ m/s}^2$	according to DIN IEC 60 068, part 2 - 6
Shock	11 ms $\leq 300 \text{ m/s}^2$	according to DIN IEC 60 068, part 2 - 27
Shaft diameter	d 6 mm	6
Weight	approx. 430 g	

Electrical data

Output signals	360° mech. angle of rotation correspond to 0 - 10VDC <i>AU-version</i> or 4 - 20 mA <i>AI-version</i>	360G
Electronic version	output stage: Analogue (voltage output): $U_{\text{Out}} = 0 - 10 \text{ VDC } \textit{AU-version}$ (not short-circuit proof)	AU
Internal resolution	1024 (10 Bit) steps per revolution	
Internal type of code	Binary-Code	BI
Supply voltage	U_{B} 15 - 30 VDC (polarity protected)	
Load resistance	R_{Load} 20 k Ω	
Permissible cable length	≤ 15 m (Baumer Thalheim cable)	
Type of connection	socket type 2, pin contacts, radial, 12-poles	D2SR12
Operating temperature range	0 °C to +70 °C	S
Permissible relative humidity	≤ 90 % (condensation not permitted)	

Options

Output signals	35° mech. angle of rotation correspond to 0 - 10 VDC <i>AU-version</i> or 4 - 20 mA <i>AI-version</i>	35G
Electronic version	output stage: Analogue (current output): $I_{\text{Out}} = 4 - 20 \text{ mA } \textit{AI-version}$ (not short-circuit proof)	AI
Further options on request		

Accessories

Connector, for version D2SR12	connector type 2, bush contacts, straight, 12-poles	S2BG12
Eccentric disc-set type A (3 pcs.)	article-no.: 40701-3	

Connection table

PIN-no.	signale	Explanation
PIN 1	NC	
PIN 2	NC	
PIN 3	NC	
PIN 4	0 V _{Out}	< > Output voltage resp. -current vising at clockwise rotation
PIN 5	+ U _{Out} resp. I _{Out}	< > when looking at the end of the shaft
PIN 6	NC	
PIN 7	NC	
PIN 8	NC	
PIN 9	NC	
PIN 10	0 V	
PIN 11	NC	
PIN 12	+ U _B	

Ordering example:

ATD 2A Absolute encoder ATD 2A	B14 Design B14	Y 1 Mechanical variant Y 1 = look at the drawing	360G Output signal 360° correspond to 0 - 10 VDC <i>AU</i> or 4 - 20 mA <i>AI</i>	AU Electronic version Analogue (voltage output)	BI Internal type of code Binary-Code	D2SR12 Type of connection socket type 2, pin contacts, radial, 12-poles	S Operating temperature range 0 °C to +70 °C	6 Shaft diameter 6 mm	IP65 Protection IP65	Attachment kit variant
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