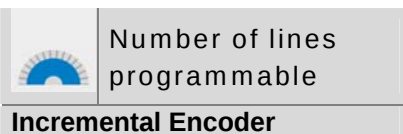


Motor-Feedback System

VFS60A-

TDPZ0-S01



Deviation to Standard Motor-Feedback-System
VFS60A-TDPJ01024

■ Customized flange

Features

- Electrical Interface
5... 32 V, TTL/HTL
- Through hollow shaft
10 mm
- Connection type, cable
8-core, universal, 0.5 m



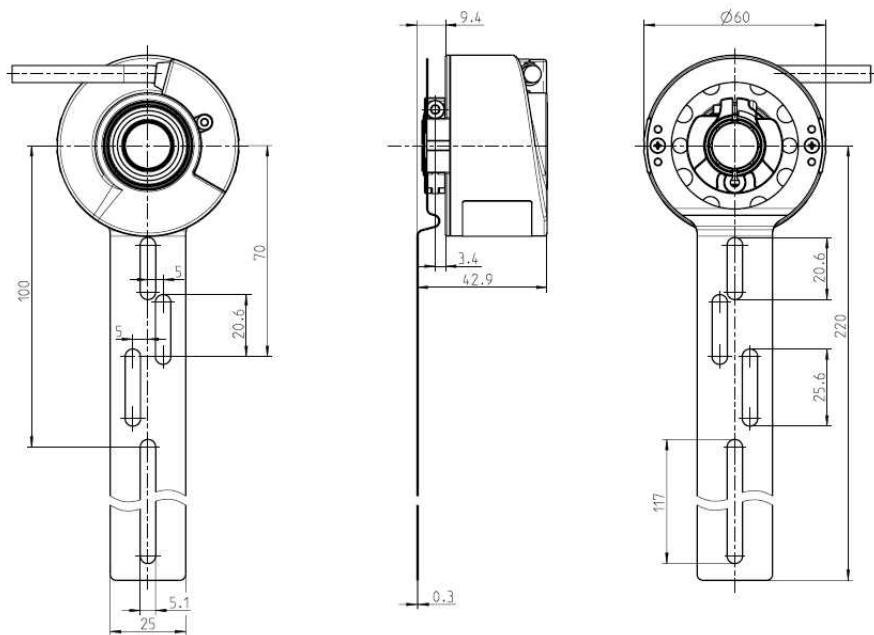
Wire allocation, cable 8-core

Colour of wires	Signal TTL/HTL	Explanation
Brown	A ₋	Signal line
White	A	Signal line
Black	B ₋	Signal line
Pink	B	Signal line
Yellow	Z ₋	Signal line
Lilac	Z	Signal line
Blue	GND	Ground connection of the encoder
Red	+ U _s	Supply voltage ¹⁾
Screen	Screen	Screen ²⁾

¹⁾ Potential free to housing

²⁾ Screen on the encoder side connected to the housing. On the control side connected to earth.

Dimensional drawing



Order information

Type	Part no.
VFS60A-TDPZ0-S01	1037462

Technical Data acc. to DIN 32878		VFS60A-TDPZ0- S01
Hollow shaft diameter	10 mm	
Electrical Interface	TTL/ HTL	
Number of lines per revolution	programmable	
Mass	0.2 kg	
Moment of inertia of the rotor	40 gcm ²	
Measuring step	90°/number of lines electr.	
Reference signal		
Number	1	
Position	90° electrical and logical interlocked with A + B	
Error limits	± 0.03°	
Measuring step deviation	± 0.01°	
Max. output frequency TTL/RS 422	820 kHz	
Operating speed ¹⁾	9,000 rpm	
Angular acceleration	5 x 10 ⁵ rad/s ²	
Operating torque at 20 °C	0.6 Ncm	
Starting torque at 20 °C	0.8 Ncm	
Permissible movement of the drive element		
Radial static/ dynamic	± 0.3/ ± 0.05 mm	
Axial static/ dynamic	± 0.5/ ± 0.01 mm	
Bearing lifetime	3 x 10 ⁹ revolutions	
Working temperature range	± 0 ... + 100 °C	
Storage temperature range (without package)	- 40 ... + 100 °C	
Permissible relative humidity ²⁾	90 %	
EMC ³⁾		
Resistance to shocks ⁴⁾	60g/6 ms	
Resistance to vibration ⁵⁾	20 g/10 ... 2,000 Hz	
Protection class acc. IEC 60529	IP 65	
Load current 5...32V, TTL/HTL programmable	Max 30 mA	
No-load operating current 5...32V, TTL/HTL programmable	60 mA	
Initialisation time after power on 5...32V, TTL/HTL programmable	1,000 ms	

¹⁾ Self warming 3.3 k/1,000 rpm when applying, note working temperature range

²⁾ Condensation of the optical scanning not permitted
³⁾ Acc. EN 61000-6-2 and EN 61000-6-3

⁴⁾ Acc. EN 60068-2-27

⁵⁾ Acc. EN 60068-2-6

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