

- Industrial standard housing Ø58 mm
- 200 ppr
- Servo flange
- 10 V ... 30 V with short-circuit proof push-pull output
- Fault indication output*
- SAP No. 1013458



* Error signal at light beam failure, break of leads or overloading of the output driver.

Technical drawing of the servo motor flange and cable gland assembly. The drawing includes a side view, a top view, and a detail view of the cable gland.

Side View Dimensions:

- Total width: 56
- Central bore: $\varnothing 50H7$
- Mounting flange: 42
- Flange thickness: 10
- Internal features: 4, 3, 3
- Internal bore: 36
- Cable gland length: 21.5
- Surface finish: $\sqrt{0.05A}$ (top), $\sqrt{0.2A}$ (bottom)

Top View Dimensions:

- Flange diameter: $\varnothing 42$
- Mounting holes: 3 x $\varnothing 4.4$
- Angle between mounting holes: 30° and 120°

Cable Gland Details:

- Type: Cable gland PG7/PG9, axial
- Length: 140
- Diameter: $\varnothing 4.4$

Labels:

- Servo flange
- Cable gland PG7/PG9, axial

General specifications

Pulse count		200
Functional safety related parameters		
MTTF _d		140 a
Mission Time (T _M)		20 a
L ₁₀		70 E+9 at 6000 rpm
Diagnostic Coverage (DC)		0 %
Output		
Output type		push-pull, incremental
Voltage drop	U _d	< 3 V
Operating voltage		10 ... 30 V DC
No-load supply current		max. 60 mA
Load current		max. per channel 40 mA , short-circuit prtected (not with U _b), reverse polarity protected
Output frequency		max. 200 kHz

Technical Data

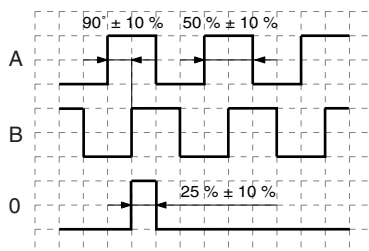
Rise time	400 ns
Fault indication output	
Interference condition	low level
Output type	open collector with pull-up resistor (5.6 k Ω against +U _b)
Load current	-40 mA
Connection	
Cable	Ø5 mm, 6 x 0,14 mm ² , L = 1,3 m with Harting pins (Nr.09150006307)
Standard conformity	
Degree of protection	DIN EN 60529, IP65
Climatic testing	DIN EN 60068-2-3, no moisture condensation
Emitted interference	EN 61000-6-4:2007/A1:2011
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 3 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 2000 Hz
Ambient conditions	
Operating temperature	-5 ... 80 °C (23 ... 176 °F) , movable cable -20 ... 80 °C (-4 ... 176 °F), fixed cable
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications	
Material	
Housing	powder coated aluminum
Flange	3.1645 aluminum
Shaft	Stainless steel 1.4305 / AISI 303
Mass	approx. 350 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	≤ 25 gcm ²
Starting torque	≤ 1.5 Ncm
Shaft load	
Axial	40 N at max. 6000 min ⁻¹ 10 N at max. 12000 min ⁻¹
Radial	60 N at max. 6000 min ⁻¹ 20 N at max. 12000 min ⁻¹

Connection

Signal	Cable Ø5 mm, 6-core
GND	Grey
U_b	Brown
A	White
B	Green
0	Yellow
Error	Pink

Operation

Signal outputs



↺ cw - in view of the shaft