

Absolute encoder SV58

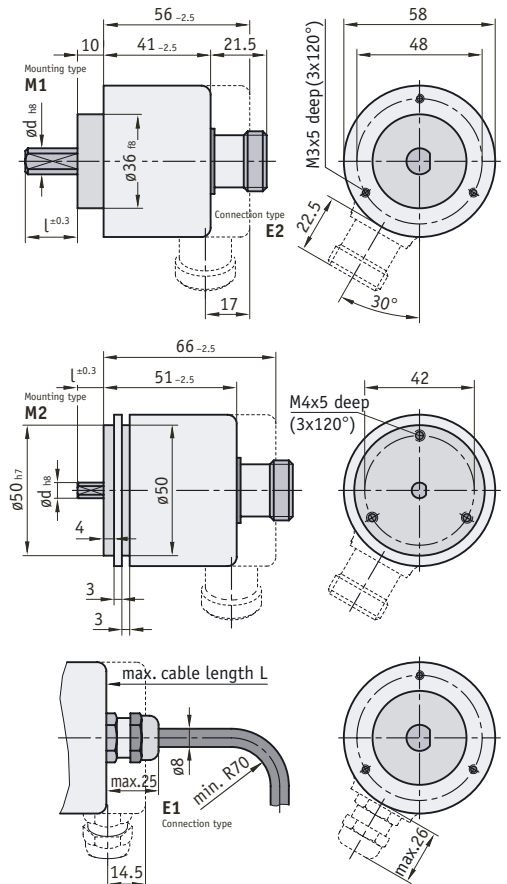
Solid shaft

SV58 - absolute, programmable single-turn encoder with solid shaft and 58 mm flange as standard



Features:

- resolution max. 14 bit/revolution
- only 66 mm installation depth
- solid shaft diam. 6 and 10 mm
- 58 mm size diam.
- SSI interface
- IP65 type of protection
- shock-proof up to 250 g



Feature	Order text	Technical data	Additional information
Interface/protocol	P1	A parallel	
	S6/04	RS422/SSI	
Connection type	E1	B cable	
	E2	connector	mating connectors available: 12-pole, art.no. 81273, 17-pole no. 81294
Position of el. connection	A	C axial	
	R	radial	
Cable length L [m]	1.0	D 2.0, 3.0, 5.0, 8.0, 10.0	
	OK	without cable	
Steps/revolution	360	E 16384, 8192, 4096, 3600, 1024, 1000, 720	
Output code	B	F binary	
	G	Gray	
	E	Excess-Gray	
Mounting type	M1	G clamping flange	
	M2	servo flange	
Shaft diam. x length [mm]	6 x 10	H d x l	
	10 x 20		
Option	0	I without	
	S	SET input	
	L	LATCH input	
	SL	SET+LATCH inputs	
	D	reversal of sense of rotation	
Mechanical data			
Speed		max. 12000 min ⁻¹	
Rotor moment of inertia		approx. 1.8 x 10 ⁻⁶ kgm ²	
Starting torque		< 0.01 N	
Load capacity of shaft		radial 80 N	axial 40 N
Weight		approx. 0.4 kg	
Type of protection		IP 65	according to EN 60 529
Working temperature		-20 °C ... +85 °C *	
Shaft		stainless steel	
Cable sheath		PVC	
Shock resistance		2500 m/s ² , 6 ms	according to DIN-IEC 68-2-27
Vibration resistance		100 m/s ² , 10 ... 2000 Hz	according to DIN-IEC 68-2-6
Electrical data			
		SSI	Parallel
Operating voltage		10 ... 30 V DC	10 ... 30 V DC
Output driver		RS 485	push-pull
Power cons. without load		typ. 89 mA	109 mA
Permitted load/channel (max.)		± 20 mA	± 10 mA
SSI clock speed min./max.		100 kHz/500 kHz	
Signal level high (min.)		typ. 3.8 V	UB - 2.8 V
Signal level low (max.)		typ. 1.3 V (20 mA)	1.8 V (10 mA)
Ramp-up time t _r (max.)		100 ns**	1 µs**
Ramp-down time t _f (max.)		100 ns**	1 µs**
Short-circuit proof outputs		yes, only 1 channel **	yes
Polarity protection on UB		yes	yes
Other data			
Test mark		CE	

* 80 °C for E1 type of connection, 70 °C for 14-bit version, ** short circuit toward 0V permissible at UB = 24 V DC ±20%.

Your order data: - - - - - - - - -