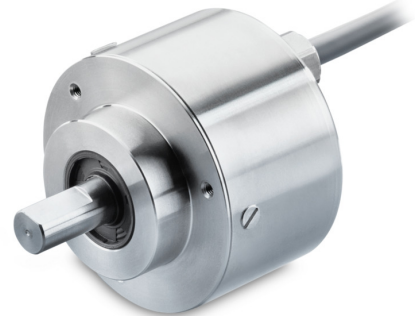


GE355

Solid shaft with clamping flange, stainless steel housing
5...2048 pulses per revolution

Overview

- Encoder with clamping flange
- Stainless steel design
- Optical sensing method
- Max. 2048 pulses per revolution
- Clamping flange with solid shaft $\varnothing 10$ mm



Technical data

Technical data - electrical ratings

Voltage supply	5 VDC ± 10 % 4.75...30 VDC 10...30 VDC
Reverse polarity protection	Yes (4.75...30 VDC)
Consumption w/o load	≤ 30 mA (24 VDC) ≤ 60 mA (5 VDC)
Pulses per revolution	5 ... 2048
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 150 kHz
Output signals	A 90° B, N + inverted
Output stages	Linedriver/RS422 Push-pull short-circuit proof
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-4
Approval	UL approval / E63076

Technical data - mechanical design

Size (flange)	$\varnothing 58$ mm
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Technical data - mechanical design

Shaft type	$\varnothing 10$ mm solid shaft (clamping flange)
Admitted shaft load	≤ 20 N axial ≤ 40 N radial
Flange	Clamping flange
Protection EN 60529	IP 67
Operating speed	≤ 10000 rpm
Starting torque	≤ 0.03 Nm (+25 °C, IP 67)
Rotor moment of inertia	14.5 gcm ²
Material	Housing: stainless steel 1.4305 Flange: stainless steel 1.4305
Operating temperature	-25...+85 °C
Relative humidity	95 % non-condensing
Resistance	EN 60068-2-6 Vibration 10 g, 16-2000 Hz EN 60068-2-27 Shock 200 g, 6 ms
Connection	Cable 1 m Cable 1.5 m
Weight approx.	500 g

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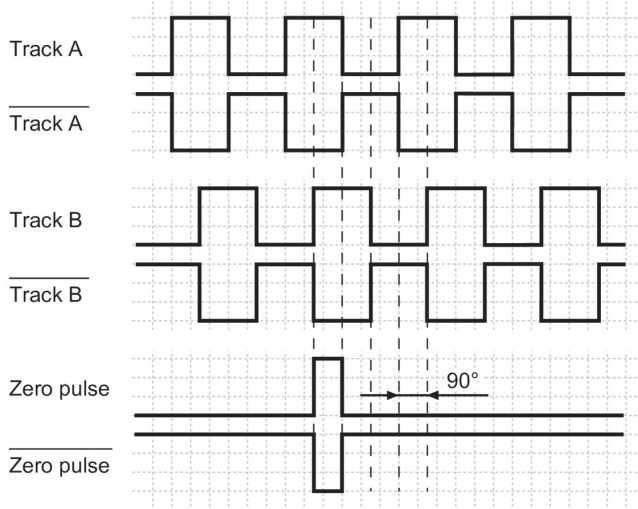
Terminal assignment

Core colour	Assignment
pink	Track B inv.
blue	UB-Sense
red	Track N (zero pulse)
black	Track N inv. (zero pulse inv.)
brown	Track A
green	Track A inv.
grey	Track B
white/green	GND
white	GND-Sense
brown/green	UB

UB-Sense and GND-Sense are directly connected to UB resp. GND.
Please use cores twisted in pairs (for example track A / track A inv.) for extension cables of more than 10 m length.

Output signals

Clockwise rotating direction when looking at flange.



Trigger level

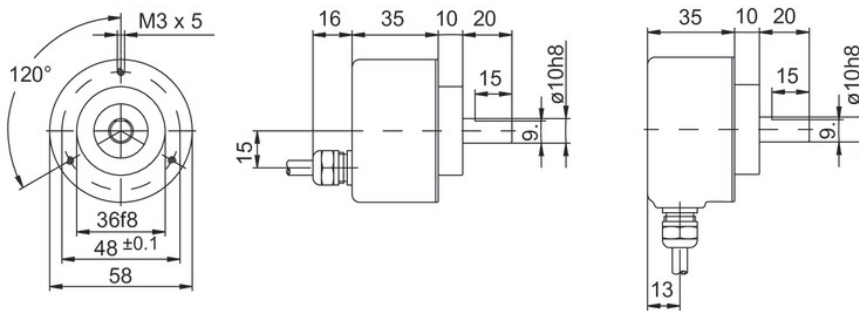
Outputs	Linedriver RS422
Output level High	>2.5 V (I = -20 mA)
Output level Low	<0.5 V (I = 20 mA)
Load High / Low	<20 mA

Outputs	Push-pull short-circuit proof
Output level High	>UB -3 V (I = -20 mA)
Output level Low	<0.5 V (I = 20 mA)
Load High / Low	<20 mA

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5...2048 pulses per revolution

Dimensions



GE355

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 5...2048 pulses per revolution

Ordering reference

	GE355	.	A	##	#	#####
Product	GE355					
Flange / Solid shaft						
Clamping flange / ø10 mm, IP 65			A			
Voltage supply / signals						
5 VDC / linedriver RS422				22		
4.75...30 VDC / push-pull				70		
10...30 VDC / linedriver RS422 (5 VDC)				72		
Connection						
Cable 1 m, axial					31	
Cable 1.5 m, radial					4A	
Pulse number						
5						49
10						36
25						50
50						39
60						40
100						41
500						15
1000						22
1024						23
2048						29

Accessories

Mounting accessories

11191971 Bellows coupling - stainless steel (D1=10 / D2=10)