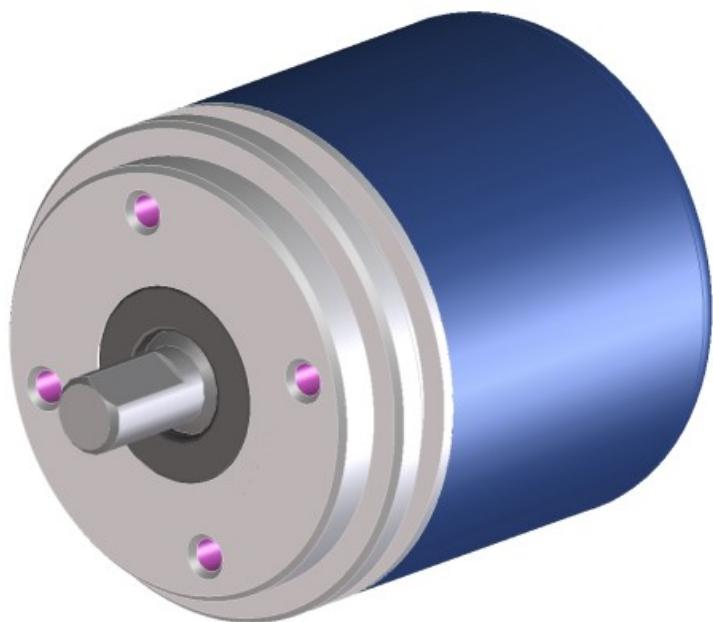




Strada Panealba, 2 - 10040 Volvera (TORINO) ITALY
Tel. 0039.011. 990.60.60 - (4 linee r.a.) FAX. 0039.011.985.90.73
www.logansrl.it e-mail info@logansrl.it

OPTICAL
INCREMENTAL ENCODER

EN380N



TECHNICAL DATASHEET

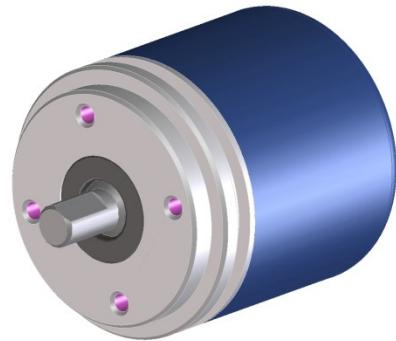


Strada Panealba, 2 - 10040 Volvera (TORINO) ITALY
Tel. 0039.011. 990.60.60 - (4 linee r.a.) FAX. 0039.011.985.90.73
www.logansrl.it e-mail info@logansrl.it

OPTICAL ENCODER EN38ON

GENERAL FEATURES

- Incremental optical rotary encoder with small overall dimensions
- Flange and body made of aluminium
- Sealed cable output either radial or axial position



MECHANICAL AND ELECTRICAL FEATURES

MECHANICAL	Cod. EN38ON	PP	L5
• Flange and body made of aluminium	Number of pulses/revolution	From 5 to 3600 ppr	
• Ring for high protection	Max rotational speed	8000 rpm (peak) 6000 rpm (continuous)	
• Stainless steel shaft	Max load on the shaft	30 N (radial) 30 N (axial)	
• Ball bearings	Shaft diameter	ø6 h7 - ø8 h7	
• High protection against environmental conditions	Protection class	IP65 (standard) IP67 (optional)	
ELECTRICAL	Operating temperature	0 ÷ 70° C	
• Protection against shorts	Storage temperature	-20 ÷ 80° C	
• High stability of output signals	Humidity	20 ÷ 90 %	
	Power supply voltage	5 ÷ 28V ± 10%	
	Current consumption at 5Volts	40 mA	
	Max output current	40 mA	70 mA
	Max frequency		120 kHz
	Output	Push Pull	Line Driver
	Standard length of cable		1m
	Electrical connections		See the rel. table
	Electrical protections		Inversion of Power Supply Polarity Short Circuit on output port
	Weight		80 g

ORDERING CODE

MODEL	CABLE OUTPUT	PPR	POWER SUPPLY	SHAFT Ø	CABLE	OUTPUT	OPTIONS
EN38ON	HR	XXXXX	05V	D06	M01	L5 C	V2
	HR = radial output		05V = 5V	D06 = ø6 mm	M0.5 = 0.5m	L5 C = Line Driver	No code = standard configuration
	HA = axial output		0528 = 5+28V	D08 = ø8 mm	M01 = 1m	PP C = Push-Pull	V2 = protection class IP67
					M40 = 40m _{MAX}		

Example ↗ EN38ON HR 00300 05V D06M01 L5 C V2



Strada Panealba, 2 - 10040 Volvera (TORINO) ITALY
Tel. 0039.011. 990.60.60 - (4 linee r.a.) FAX. 0039.011.985.90.73
www.logansrl.it e-mail info@logansrl.it

CABLE AND ELECTRICAL CONNECTIONS

Cable 8 cores $\varnothing = 4.5\text{mm}$, PVC external sheath

Wires section:

- for power supply: 0.14mm^2
- for signals: 0.14mm^2

Cable 5 cores $\varnothing = 4.1\text{mm}$, PVC external sheath

Wires section:

- for power supply: 0.35mm^2
- for signals: 0.14mm^2

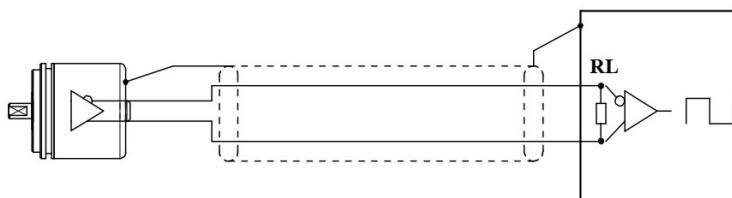
NOTES:

Respect a minimum bending radius of 50mm for cables.

PP		L5	
SIGNAL	WIRE COLOUR	SIGNAL	WIRE COLOUR
A	Green	A	Green
B	White	B	White
Z	Brown	Z	Brown
		\bar{A}	Orange
		\bar{B}	Light Blue
		\bar{Z}	Yellow
V+	Red	V+	Red
GND	Blue	GND	Blue
$\frac{1}{-}$	Shield	$\frac{1}{-}$	Shield

N.C. = Wire not connected

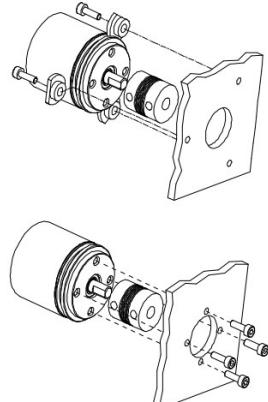
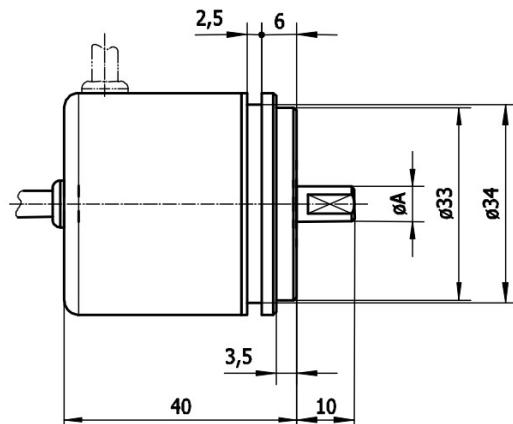
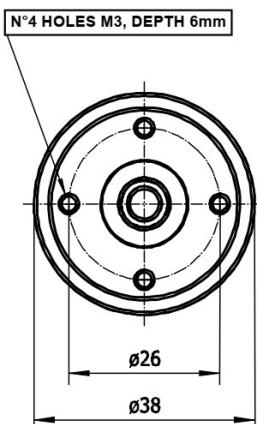
SHIELDED CABLE



LINE-DRIVER CONNECTION	
POWER SUPPLY	RL
5V	$120\ \Omega$
12V	$330\ \Omega$
24V	$1000\ \Omega$

In case of cable extension, ensure the electrical connection between the body of connectors.

DIMENSIONS AND RECOMMENDED FIXING



- Use an elastic coupling for shaft junction.
- For fixing through brackets, drill on the mounting surface n. 3 holes M4 on a diameter of 50mm.

WHAT TO AVOID

- Any type of mechanical working (cut, drill, mill, etc.)
- Any modification either on the body or on the shaft of the encoder
- Any kind of bad usage
- External hits or stresses

