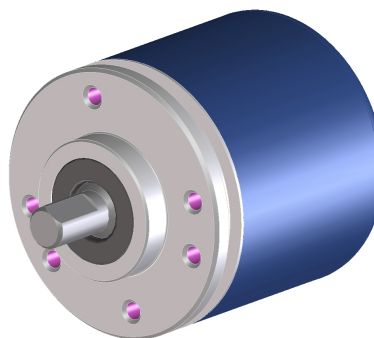


Code <b>ST06</b>	Project <b>A02</b>	Release <b>B</b>	Title <b>TECHNICAL DATASHEET</b>
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## OPTICAL ENCODER EN38MN

### 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

<b>MECHANICAL</b>  <ul style="list-style-type: none"> <li>• Flange and body made of aluminium.</li> <li>• Ring for high protection.</li> <li>• Shaft made of stainless steel.</li> <li>• Ball bearings.</li> <li>• Fixing by no. 3 screws M3 at 120° or no. 4 screws M3 at 90°.</li> <li>• Centring diameter 20mm.</li> <li>• High rotational precision.</li> <li>• High protection against environmental conditions.</li> </ul> <b>ELECTRICAL</b>  <ul style="list-style-type: none"> <li>• Protection against shortcuts.</li> <li>• High stability of output signals.</li> </ul>	<b>Code EN38MN</b>	<b>PP</b>	<b>L5</b>
		<b>Pulses per revolution</b>	from 5 to 3600 ppr
	<b>Max. rotating speed</b>	momentary	8000rpm
		permanent	6000rpm
	<b>Max. load on shaft</b>	30 N (radial) – 30 N (axial)	
	<b>Shaft (diameter A x length L) mm</b>	ø6 h7 – ø8 h7	
	<b>Protection class</b>	IP65 (standard) * IP67 (optional)	
	<b>Operating temperature</b>	0 ÷ 70° C	
	<b>Storage temperature</b>	-20 ÷ 80° C	
	<b>Humidity</b>	20 ÷ 90 % (not condensed)	
	<b>Power supply</b>	5 ÷ 28V ± 10%	
	<b>Current consumption at 5V</b>	40 mA	
	<b>Max. output current</b>	40 mA	70 mA
	<b>Max. frequency</b>	120 kHz	
	<b>Output</b>	Push-Pull	Line Driver
	<b>Standard length of cable</b>	1m	
	<b>Electrical connections</b>	see rel. table	
	<b>Electrical protections</b>	inversion of power supply polarity short-circuits on output port	
	<b>Weight</b>	80 g	

\* It is important to note that shaft rotates more freely in the version with protection class IP65.

### ORDERING CODE

MODEL	CABLE OUTPUT	PPR	POWER SUPPLY	SHAFT Ø	CABLE	OUTPUT	OPTIONS
<b>EN38MN</b>	<b>HR</b>	<b>xxxxx</b>	<b>05V</b>	<b>D06</b>	<b>M01</b>	<b>L5 C</b>	<b>V2</b>

HR = radial  
HA = axial

05V = 5V  
0528 = 5÷28V

D06 = ø6mm  
D08 = ø8mm

M0.5 = 0.5m  
M01 = 1m  
M40 = 40m<sub>MAX</sub>

L5 C = LINE DRIVER  
PP C = PUSH-PULL

No code = standard configuration  
V2 = protection class IP67

Example  **OPTICAL ENCODER EN38MN HR 00300 05V D06M01 L5 C V2**

