

Code <b>ST05</b>	Project <b>E07-A</b>	Release <b>A</b>	<b>TECHNICAL DATASHEET</b>
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## ABSOLUTE OPTICAL ENCODER AEN600 (Serial)

### GENERAL FEATURES

- Absolute optical encoder (singleturn or multiturn).
- Output protocol: **SSI, BiSS**.
- Aluminium flange and housing.
- Radial or axial output with connector M23 12 Pin or M12 8 Pin.



### MECHANICAL AND ELECTRICAL CHARACTERISTICS

<b>MECHANICAL</b> <ul style="list-style-type: none"> <li>• Square flange, with centering <math>\varnothing</math> 31.75 mm.</li> <li>• Aluminium housing.</li> <li>• Stainless steel shaft.</li> <li>• Ball bearings with special high-sealed screens.</li> <li>• High protection even in harsh environmental conditions.</li> </ul> <b>ELECTRICAL</b> <ul style="list-style-type: none"> <li>• Diagnostic LED.</li> <li>• Input (direction).</li> <li>• Output data: status, preset.</li> </ul>	<b>Cod. AEN600</b>	
	<b>Resolution</b>	10-17 Bit Singleturn    12 Bit Multiturn
	<b>Max. rotating speed</b>	continuous    10000 rpm momentary    12000 rpm
	<b>Max. shaft load</b>	40 N (axial) - 60 N (radial)
	<b>Shaft diameter (mm)</b>	$\varnothing$ 9.52 – $\varnothing$ 10
	<b>Operating temperature</b>	-40 °C ÷ 100 °C
	<b>Storage temperature</b>	-25 °C ÷ 85 °C
	<b>Vibration resistance (EN 60068-2-6)</b>	100 m/s <sup>2</sup> (10 ÷ 2000 Hz)
	<b>Shock resistance (EN 60068-2-27)</b>	1000 m/s <sup>2</sup> (6 ms)
	<b>Protection class (EN 60529)</b>	IP 64 standard    IP 67 optional
	<b>Torque</b>	0.01 Ncm
	<b>Moment of inertia</b>	$3.8 \times 10^{-6}$ kgm <sup>2</sup>
	<b>Power supply</b>	10 ÷ 30 V $\pm$ 10% or 5 V $\pm$ 10%
	<b>Current consumption</b>	50 mA (SG), 100 mA (MG)
	<b>Protocol</b>	BiSS, SSI (with or without SinCos 1 Vpp)
	<b>Output code</b>	Binary, Gray
<b>Electrical connections</b>	see related table	
<b>Weight</b>	260 g (SG), 310 g (MG)	

### ORDERING CODE

MODEL	TYPE / OUTPUT	RESOL. Bit (MG)	RESOL. Bit (SG)	POWER SUPPLY	$\varnothing$ SHAFT	CONNECTOR	SIGNAL	CONNECTION	OPTIONS
<b>AEN600</b>	<b>M R</b>	<b>12</b>	<b>12</b>	<b>1030</b>	<b>D10</b>	<b>CG</b>	<b>SG</b>	<b>11</b>	<b>V2</b>

<b>S</b> = singleturn <b>M</b> = multiturn <b>R</b> = radial <b>A</b> = axial	<b>00</b> = if SG <b>12</b> = 12 Bit	<b>10</b> = 10 Bit <b>12</b> = 12 Bit <b>13</b> = 13 Bit <b>14</b> = 14 Bit <b>17</b> = 17 Bit	<b>1030</b> = 10÷30 V <b>05V</b> = 5 V	<b>952</b> = $\varnothing$ 9.52 mm <b>D10</b> = $\varnothing$ 10 mm	<b>CG</b> = M23 12 Pin <b>CT</b> = M12 8 Pin	<b>BI</b> = BiSS <b>BC</b> = BiSS+1 Vpp <b>SB</b> = SSI Binary <b>SG</b> = SSI Gray <b>SC</b> = SSI+1 Vpp	<b>n</b> = connection number	<b>No cod.</b> = standard <b>V2</b> = IP 67
		<b>0360</b> = 360 increment SG <b>0720</b> = 720 increment SG						

Example  **ABSOLUTE OPTICAL ENCODER AEN600 MR 1212 1030 D10 CG SG 11 V2**

