

AS900

ABSOLUTE SHAFT ENCODER



- Heavy Duty Construction
- IP65 Protection
- Up to 13 Bits (8192) Parallel Format
- 5 Vdc or 8 to 30 Vdc
- Parallel Format Gray Code or Binary Code

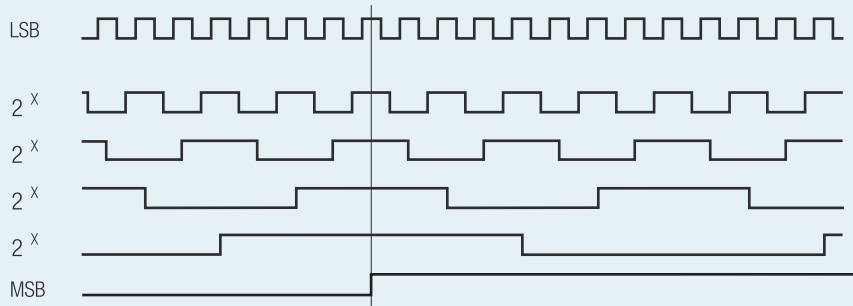
ELECTRICAL SPECIFICATIONS

Supply Voltage	5Vdc or 8 to 30Vdc
Current Consumption	max. 100 mA
Output Circuit	Push-Pull
LSB Frequency	100 kHz (max)
Signal Level (high)	Vcc - 0.7 Volt
Signal Level (low)	0.3 Volt (max)
Short Circuit Protection	100%

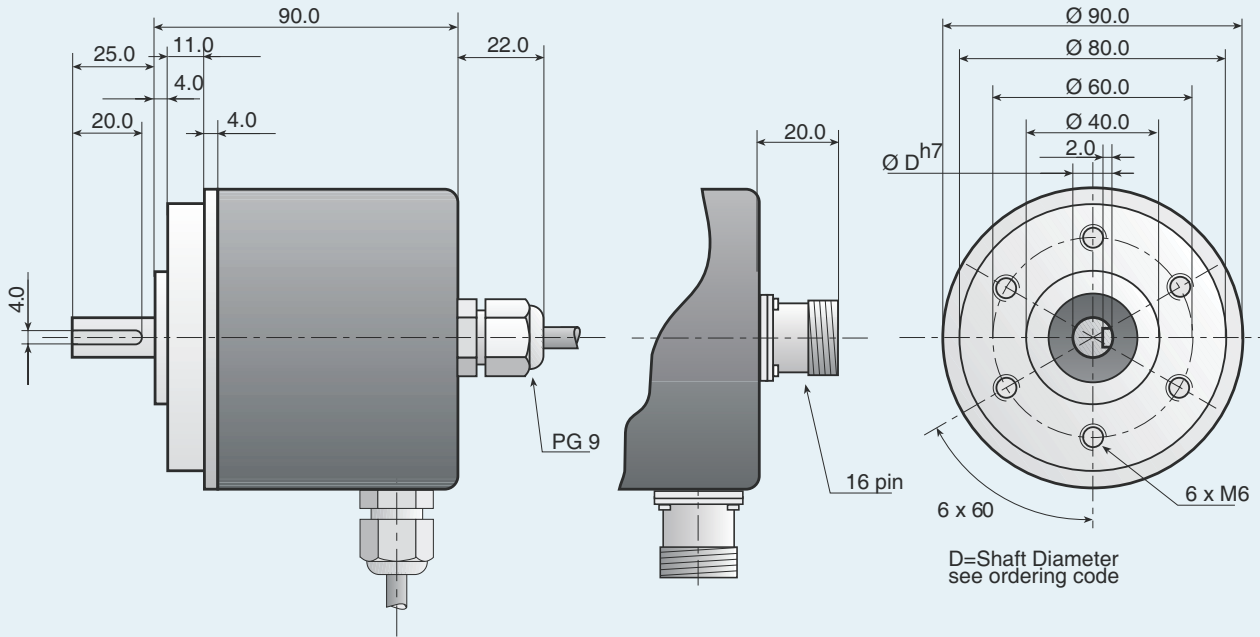
MECHANICAL SPECIFICATIONS

Cover	Aluminum
Bearing Housing	Aluminum
Shaft	Stainless Steel
Maximum RPM	6000 RPM (max)
Torque	> 0.1 Nm
Shaft Loading	Axial 60 N, Radial 50 N
Environmental Protection	IP65
Operating Temperature	-20 C to +70 C
Weight	850 g (1.91 lbs)

OUTPUT SIGNALS



Parallel Gray Code shown - Parallel Binary code also available



**ORDERING CODE**

AS 900 - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ]  
 a b c d e f g h Resolution

- a **Group Function**  
AS=Absolute Shaft Encoder
- b **Basic Series Number**  
900
- c **Shaft Size**  
10=10 mm, 12=12 mm
- Mechanical Options**
- d 0=None

- e **Connection Type**  
0=2 m (6') Cable, 8=16 Pin
- f **Connection Location**  
A=Axial, R=Radial
- g **Output Signals**  
E=Binary Code <->  
F=Gray Code <->
- h **Output Circuit Type**  
1=Push-Pull 5 Vdc  
5=Push-Pull 8 to 30 Vdc

Notes:  
Special functions and designs will be designated by a 4 digit code at the end of the part number.

**CONNECTIONS**

Function	16 Pin Connector	Cable Colour Code	Function	16 Pin Connector	Cable Colour Code
0 Volt	1	white	2 <sup>6</sup>	9	black
+ Volt	2	brown	2 <sup>7</sup>	10	violet
2 <sup>0</sup>	3	green	2 <sup>8</sup>	11	grey/pink
2 <sup>1</sup>	4	yellow	2 <sup>9</sup>	12	red/blue
2 <sup>2</sup>	5	grey	2 <sup>10</sup>	13	white/green
2 <sup>3</sup>	6	pink	2 <sup>11</sup>	14	brown/green
2 <sup>4</sup>	7	blue	2 <sup>12</sup>	15	white/yellow
2 <sup>5</sup>	8	red	<->	16	yellow/brown