

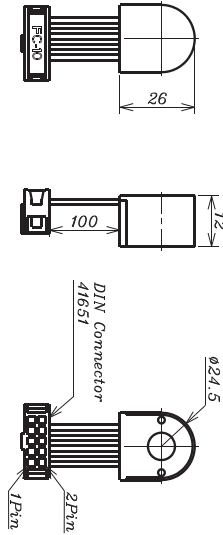


# Optical Encoder AM-EN36-T 103 Series

**ASSUN MOTOR**

2015 edition. Specifications are subject to change without notice.

## PARAMETERS



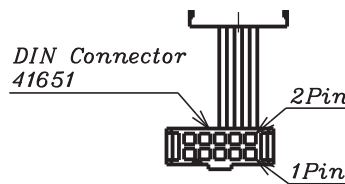
PARAMETERS / MODELS	AM-EN36-T1000-103	AM-EN36-T1024-103	AM-EN36-T2000-103	AM-EN36-T2048-103	AM-EN36-T4000-103	AM-EN36-T4096-103	Max 10000cpr
<b>DIAMETER</b>	24.5	24.5	24.5	24.5	24.5	24.5	—
<b>PPR/TURN</b>	1000	1024	2000	2048	4000	4096	—
<b>MAX CHANNELS</b>	3	3	3	3	3	3	—
<b>MAX WORKING FREQ. (KHz)</b>	60-1000	60-1000	60-1000	60-1000	60-1000	60-1000	—
<b>DIRECTION SIGNAL</b>	NO	NO	NO	NO	NO	NO	—
<b>DRIVE</b> (Differential Output)	YES	YES	YES	YES	YES	YES	—

## INFORMATION

### TECHNICAL PARAMETERS

<b>POWER V<sub>CC</sub></b>	5V±5%
<b>V<sub>CC</sub>=5.0V SIGNAL</b>	TTL COMPATIBLE
<b>OPERATING TEMPERATURE</b>	-25-80°C
<b>INERTIA (Max)</b>	11.1g.cm <sup>2</sup>
<b>OUTPUT CURRENT, each channel</b>	1.5mA(max)

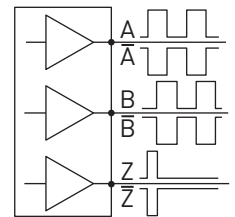
### CONNECTOR: 41651



### Definition

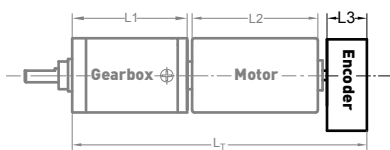
1. <b>NC</b>	2. <b>V<sub>CC</sub></b>
3. <b>GND</b>	4. <b>NC</b>
5. <b>A-</b>	6. <b>A+</b>
7. <b>B-</b>	8. <b>B+</b>
9. <b>Z-</b>	10. <b>Z+</b>

### CONNECTION DIAGRAM



## RECOMMENDED COMBINATION

### AM-EN36-T\*\*\*\* COMBINATION SCHEME



Recommend Gearbox:  
Planetary Gearbox:  
AM-36P  
AM-45P

Recommend Motor:  
BRUSHLESS Motor:  
AM-BL36\*\*\*A/B  
AM-BL45\*\*\*A/B

### TOTAL LENGTH (GEARBOX AND MOTOR): L<sub>T</sub> = L<sub>1</sub> + L<sub>2</sub> + L<sub>3</sub> (=10.0mm)

L1:45P	L2: BL45	L1:36P	L1:45P	L2: BL36
38.6	100.0	34.1	38.6	60.0
49.4		42.7	49.4	
60.2		51.3	60.2	
71.0		59.9	71.0	

For more motor and gearbox specs,  
see Assun Motor website.

Please tell us if there is vibration in application. Clients should pay attention to the integrity and reliability of the transmitted signal.

## REMARKS

Clients can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

Motor Data Tested at 25°. Motor Operation exceeds continuous limits of operating range will compromise the life of the device.

**ASSUN MOTOR**

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