

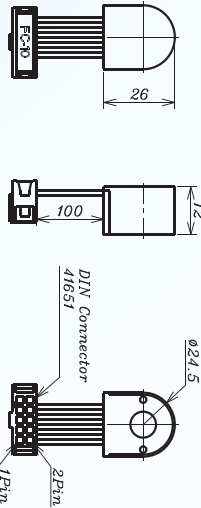


# Optical Encoder AM-EN36-T 103 Series

ASSUN MOTOR

2015 edition. Specifications are subject to change without notice.

## PARAMETERS



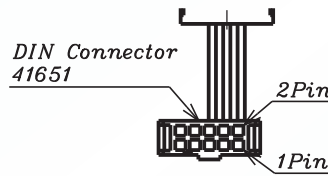
PARAMETERS /MODELS	AM-EN36-T1000-103	AM-EN36-T1024-103	AM-EN36-T2000-103	AM-EN36-T2048-103	AM-EN36-T4000-103	AM-EN36-T4096-103	Max 10000cpr
DIAMETER	24.5	24.5	24.5	24.5	24.5	24.5	—
PPR/TURN	1000	1024	2000	2048	4000	4096	—
MAX CHANNELS	3	3	3	3	3	3	—
MAX WORKING FREQ. (KHz)	55~220	55~220	55~220	55~220	55~220	55~220	—
DIRECTION SIGNAL	NO	NO	NO	NO	NO	NO	—
DRIVE (Differential Output)	YES	YES	YES	YES	YES	YES	—

## INFORMATION

### TECHNICAL PARAMETERS

POWER $V_{cc}$	5V±5%
Driver used	ISL32179
OPERATING TEMPERATURE	-25~80°C
INERTIA (Max)	1.18 g.cm <sup>2</sup>
OUTPUT CURRENT, each channel	20mA(max)

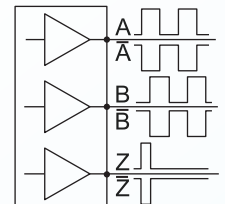
CONNECTOR: 41651



### Definition

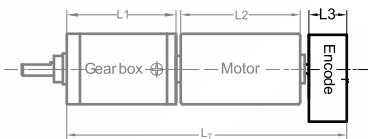
1. NC	2. Vcc
3. GND	4. NC
5. A-	6. A+
7. B-	8. B+
9. Z-	10. Z+

### CONNECTION DIAGRAM



## RECOMMENDED COMBINATION

### AM-EN16-T\*\*\*\* COMBINATION SCHEME



TOTAL LENGTH (GEARBOX AND MOTOR):  $L_T = L_1 + L_2 + L_3 (=10.0\text{mm})$

L1:45P	L2: BL45	L1:36P	L1:45P	L2: BL36
38.6	100.0	34.1	38.6	60.5
49.4		42.7	49.4	
60.2		51.3	60.2	
71.0		59.9	71.0	

### Recommend Gearbox:

Planetary Gearbox:  
AM-36P  
AM-45P

### Recommend Motor:

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

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.