



İMAJ TEKNİK
ELEKTRİK ELEKTRONİK MALZ. SAN. VE TİC. LTD. ŞTİ.



SmartAbs®

APPLICATION

- For Small Middle Wattage Motors
- Robots
- Machine Tools
- Injection Machines

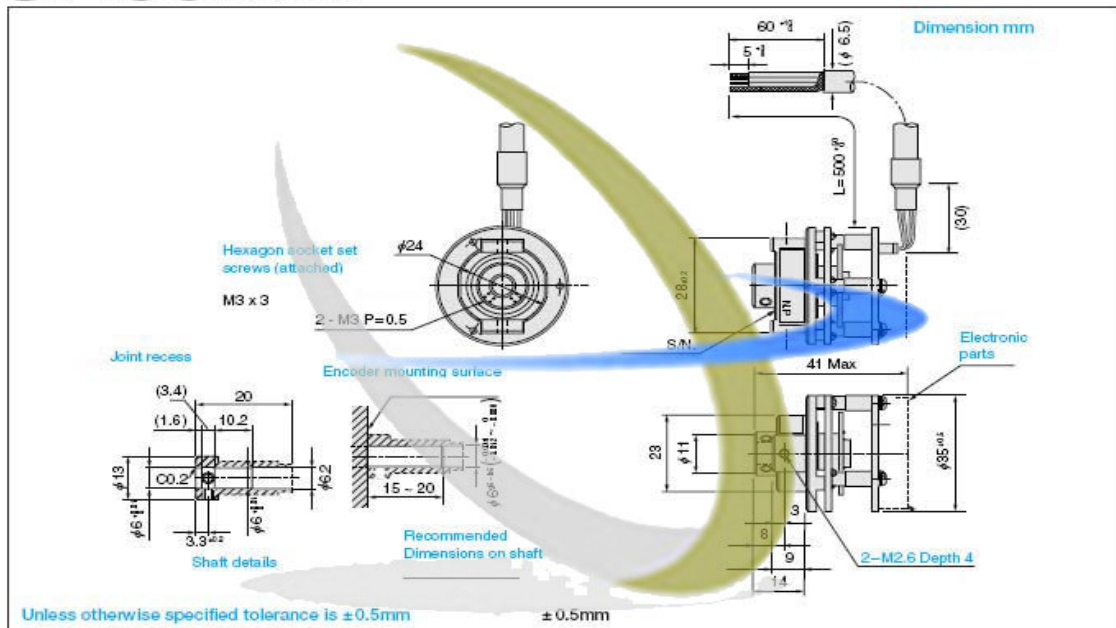
FEATURES

- Full Absolute Signal Output
- 17bit/Tum, 16bit Tums (At 6,000rpm Max)
- Bi-direction Serial Communication Type(NRZ)
- Fail-Check Operation
- Even during power outage, Multi-Tum data are backed up by external battery and built-in capacitor

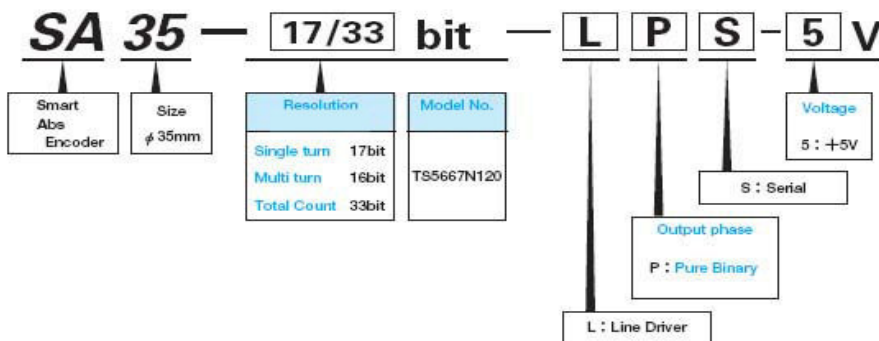


TS5667N120

SA35 Series



• DESIGNATE THE NAME OF FUNCTION WHEN ORDERING



○ For special cases, please consult us.

SPECIFICATIONS

Electrical Spec.			Mechanical Spec.		
Resolution	Absolute Signal	17bit/tum and 16bit multitums Total 33bit	Startina Toroue	$5.9 \times 10^{-9} \text{ N} \cdot \text{m}$ Max (60gf·cm)	
	Output Phase	Pure Binary Code	Moment of Inertia	$1.0 \times 10^{-6} \text{ kg} \cdot \text{cm}^2$ Typ	
Supply Voltage	DC +5V ± 5%		Maximum Rotating Speed	$6,000 \text{ min}^{-1}$ (6,000rpm) } Max (Mechanical Spec.)	
Consumption Current	(Typ) Normal Operation 60mA (Typ) Battery Operation 100µA		Mounting Tolerances	Radial Play	0.05mm TIR Max
Output Form	Line Driver	ADM 485 20mA		Axial End Play	0.1mm Max
			Shaft Inclination	0.1° Max	
Max Response Frequency	Normal Operation 13MHz Battery Operation 13MHz		Operating Temp. Range	-10~+85°C	
Serial Data Transfer Cycle	35µs ~ 63µs (Note) Including time for a request.. Time depends on the ID Codes. 2.5Mbit/sec Start-Stop transmission.		Storage Temp. Range	-20~+90°C	
Data Code	Base Band NRZ (TWO-WAY)		Protective Construction	Not Enclosed	
			Vibration	98m/s ² (10G) (5-2,000Hz) for 9hours 98m/s ² (10G) (5-2,000Hz)	
			Shock	1,960m/s ² (200G) 11msec, 3times	
			Mass	0.06kg Max Without Cable	

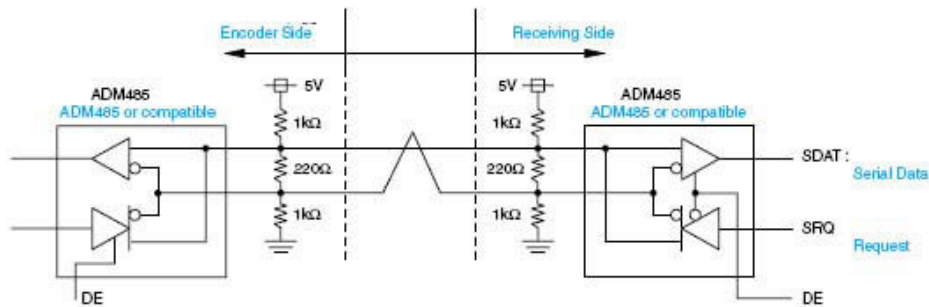
●External Battery (VB) recommended:TOSHIBA Lithium Battery ER6V

CONNECTION TABLE

Lead Wire	Function	Remark
Red	Vcc	Main Power DC +5V ± 5%
Black	GND	
Brown	VB	Battery (Notcost)
Brown/Black	GND	---
Blue	SD	Serial Data
Blue/Black	SD	
Gray	CASE GND	---

Notice 1 : Battery Power is necessary during Power Outage.

RECEIVING AND TRANSMITTING INTERFACE



www.imajteknik.com



İmaj Teknik Elektrik Elektronik San. ve Tic. Ltd. Şti.
EMEKYEMEZ MAH.TUTSAK SOK. NO: 16/13-14-15
KARAKOY/İSTANBUL
TURKEY

Telefon : +90 212 235 9535 / 36
 Fax : +90 212 235 9537

www.imajteknik.com
www.imajteknik.com.tr