

Motortronics®

ROTARY ENCODERS

FA-CODER®



OIH35

SmartAbs®



ABSOLUTE

APPLICATION

Detection of press crank angle

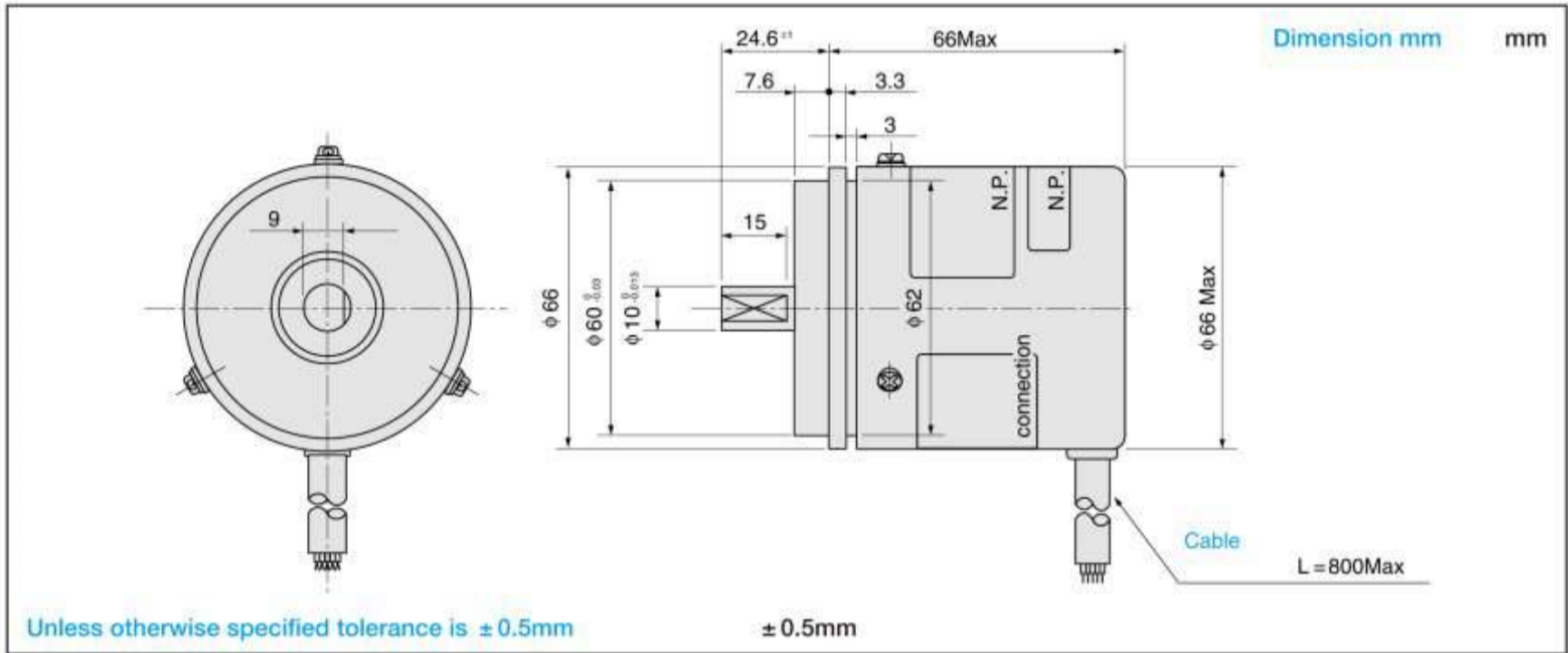
FEATURES

- Vibration-proof
- Shock-proof
- Water Drop proof
- With BUSY signal

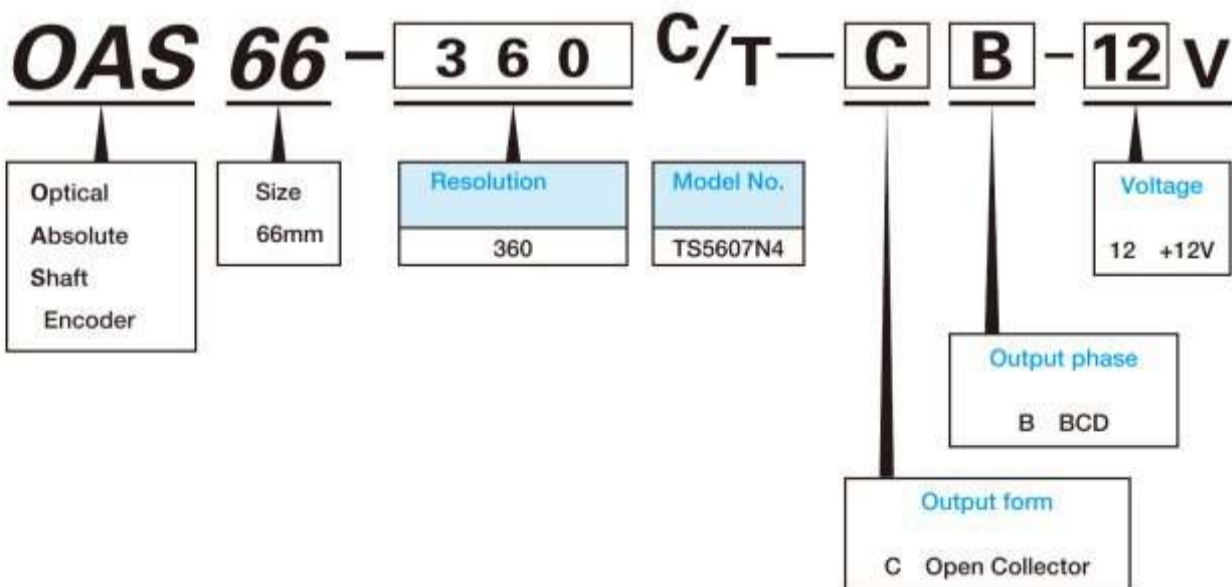


TS5607

OAS66



DESIGNATE THE NAME OF FUNCTION WHEN ORDERING



For special cases, please consult us.

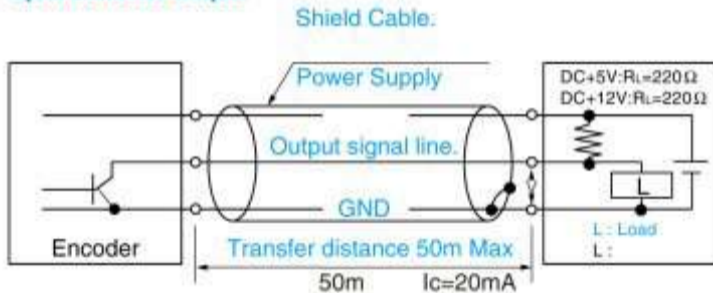
SPECIFICATIONS

Electrical Spec.	
Resolution	359C/T
Output Phase	BCD Code BCD
Supply Voltage	DC+12V±10%
Consumption Current	300mA Max
Output Form	Open Collector
	Maximum Allowable Output Voltage 28V Maximum Allowable Sink Current 50mA
Maximum Response Frequency	2.5kHz
Rise time, Fall time	1.5 μ sec Max

Mechanical Spec.		
Starting Torque	9.8x10 ⁻² N·m 1kgf·cm Max	
Moment of Inertia	3.0x10 ⁻⁶ kg·m ² 30g·cm ² Max	
Maximum Rotating Speed	5,000min ⁻¹ 5,000rpm	
Allowable Shaft Load	Radial	98N 10kgf Max
	Axial	49N 5kgf Max
Operating Temp. Range	0 +50°C	
Storage Temp. Range	-10 +70°C	
Protective Construction	IP = 54	
Vibration	49m/s ² 5G 98m/s ² 10G 5 500Hz 3 1H	
Shock	490m/s ² 50G 11m sec. 3 6 3	
Mass	0.6kg Max	

CIRCUIT AT OUTPUT STAGE (EXAMPLE)

Open Collector Output

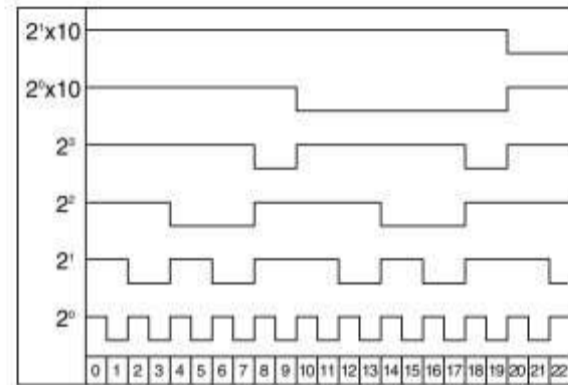


Note that transfer distance depends much on ambient condition.

Use transmission cable after verifying effects of impedance characteristics, etc.

OUTPUT PHASE SHIFT

→ CCW Viewed from Shaft End



The logic shall be negative and above figure shall show a voltage wave-form

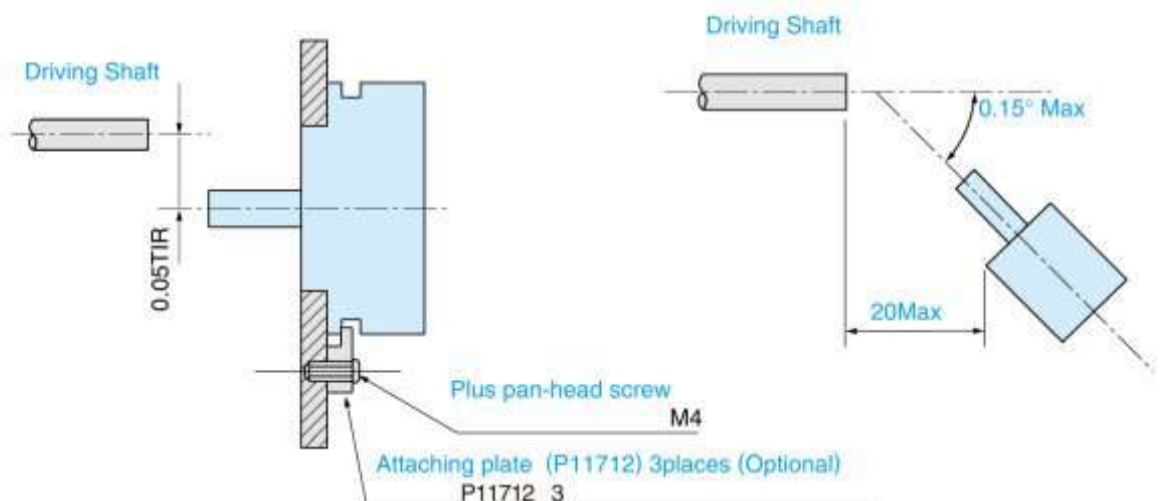
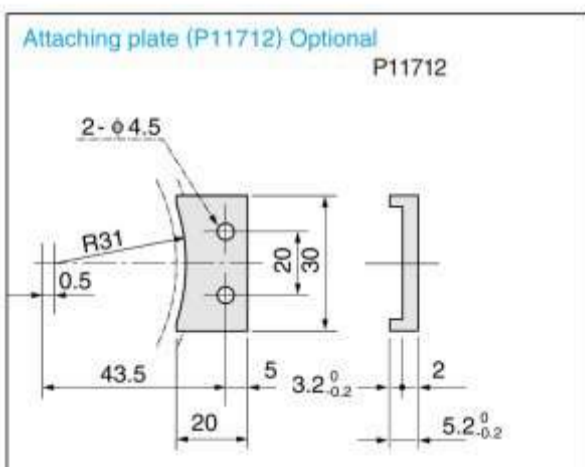
CONNECTION TABLE

Lead color	Function	Lead color	Function	Lead color	Function
BROWN	B2 x200 MSB	BLUE	A1 x10	WHITE/VIOLET /	DC+12V
RED	A2 x100	VIOLET	D0 x8	WHITE/GRAY /	GND
ORANGE	D1 x80	GRAY	C0 x4	WHITE/GRAY /	GND
YELLOW	C1 x40	WHITE	B0 x2	BLACK	Reverse Count
GREEN	B1 x20	WHITE/BLACK /	A0 x1 LSB	WHITE/BROWN /	Busy Signal

ATTACHING WAY (EXAMPLE)

Note that attaching alignment can be changed by the couplings when coupled to the driving shaft.

Dimension mm mm



ROTARY ENCODERS

FA-CODER[®]

FA-CODER[®]

Digital techniques in business industry have been greatly advanced. Among these, necessity for converting analog like rotating value, shaft angle position, etc. to digital has been increased as measurement for physical value and automation for control system are advanced. Encoders, at present, have been widely used for factory automations, measurements, office automation devices, medical equipment, aviations and universal fields.

Various kinds of encoders (FA-CODER[®] as trade mark) from small to high resolution are available to meet all of the requirements. High performance encoders supported by these high disk producing techniques are available.

