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KEW-M8165E-F

Do not use this product for applications related to human safety.
Use is assumed in an application where an accident or incorrect use
will not immediately cause danger to humans.

Do not apply any kind of stress to the wires.
Otherwise electric shock or fire may be caused.

Power supply
12V/24V

Output bit10~bit1

0V
Shield

Ambient temperature	Operation temperature: -20~+75℃
	Storage temperature: -25~+85℃
Ambient humidity	35~85%RH (non-condensing)
Withstand voltage	AC500V 1minute
Insulation resistance	10MΩ min.
Vibration resistance	Durable for 1h along 3 axes at 10 to 55Hz with 0.75mm amplitudes
Shock resistance	11ms with 490m/s ² applied 3 times 3 axes
Protection construction	Dust proofed:IP50 (magnetic permeability cast-iron casing)

TRD-MA

- Series
- Type
- Blank: Shaft H: Hollow shaft
- Resolution
- Direction
- Blank: Normal revolution (CW)
R : Reverse revolution (CCW)
- Output type
- N: NPN open collector
P: PNP open collector
- Connection
- Blank: Standard cable
E : With relay connector at cable end
F2 : With FC2 connector at cable end
- Cable length
- Blank:2m 5M: 5m
- Home position LED
- Blank: without a LED 9:with a LED

Type No.			TRD-MA	
Power supply	Operating voltage		10.8V~26.4V DC	
	Allowable ripple		3%rms Max.	
	Current consumption		50mA Max. (without load)	
Output waveform	Signal format		Binary gray code	
	Max. response frequency		30kHz	
	Electric Max. allowable speed		(Maximum response frequency/Pulse)×60 (The encoder can not respond to revolution faster than the electric maximum allowable speed.)	
	Precision		(360/resolution) °	
	Direction		Output code increments in positive direction of CW, Output code decrements in negative direction of CCW (CW means clockwise revolution viewed from the shaft.)	
Output	Rising/falling time		2μs Max.	
	Output type		open collector output(NPN)	open collector output(PNP)
	Output logic		Negative logic (low active)	Positive logic (high active)
	Residual voltage	Io=16mA	0.4V Max.	
		Io=32mA	1.5V Max.	
	Inflow current		32mA Max.	
	Load power supply voltage		DC30V Max.	

- Do not wire the cable in parallel with other power lines and do not share a duct with other cables.
- Use capacitors or surge absorption elements to remove the sparks caused by relays and switches in the control panel as far as possible.
- Be sure to connect all wires properly, as wrong wiring can damage the internal circuitry.
- Use a specified coupling for connecting the encoder shaft and the shaft of a machine to be controlled. Do not squeeze the shaft into the coupling.
- The service life of the bearing is largely affected by the amount of load to the shaft. Try to reduce the load as much as possible.
- Do not disassemble the product.
- As the rotary encoder is composed of precision parts, its function will be impaired when it is subjected to shocks. Use sufficient care for handling and mounting.

Type No.	Material	α	ϵ	S
RU-075	Aluminum alloy (7075)	5° MAX	0.25mmMAX	0.12mmMAX
GJ-6	Glass-fiber reinforced polyacetal resin	5° MAX	0.5mmMAX	0.12mmMAX