

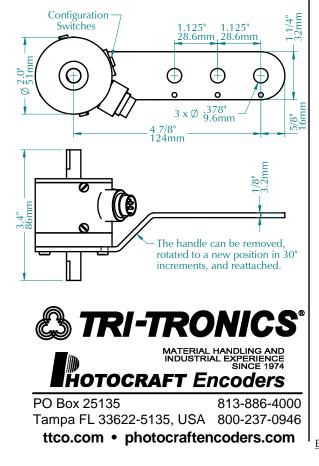
MW-20 measuring wheels and 16mm connector

FEATURES

- · Generates pulses for accurate linear measurement
- Selectable resolution: Millimeters per Pulse
- Heavy Duty construction
- Compact size
- Precision 20cm circumference measuring wheels
- 16mm or M12 connector, or attached cable
- Enhanced "Anti-Jitter" feature for web applications
- ESD, Short Circuit, Reverse Voltage protection
- · Various mounting hardware kits are available
- Other programmable models are available

DIMENSIONS

(shown with optional 16mm connector)



Mechanical

Maximum Speed: 3,000 rpm Shaft Loading:

- Radial: 40 lbs. / 18.1 kg
- Axial: 30 lbs. / 13.6 kg
- Bearing Life: 32 x 1,000,000/rpm = hours Materials: Switch cover: ABS

 - Case: Aluminum, anodized — Shaft: 303 Stainless steel

Weight: 12 oz. / 340 grams (without accessories) Protection: IP50 is standard, IP66 available

Electrical Connections

Connectors				
	16mm	16mm	M12	Wire
Function	6-Pin	8-Pin	4-Pin	Color
Common	1	5	3	Black
+vdc	2	4	1	Red
Output A	4	1	4	White
Output -A	-	6	2	Green

Unlisted pins are not used.

16mm 6-pin is Amphenol T3402000 or equivalent, for Single Ended outputs.

16mm 8-pin is Amphenol T3506000 or equivalent, for Differential Line Driver.

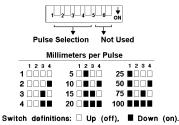
M12 4-pin is Turck FS4.4/.. or equivalent

for either Single or Differential Outputs. Attached cable is 10-ft / 3-meters. Other

lengths are available.

Configuration Switches

Determines the linear movement per output pulse when used with the 20 centimeter circumference measuring wheel (MW-20).



SPECIFICATIONS

Electrical

Supply Voltages: (specify when ordering) 5 VDC or 8-30 VDC

Current: 50 mA max (no load) 100 mA max (line driver)

- Pulse Rate: 0 30 kHz
- Pulses per Revolution: 2, 2-2/3, 4, 8, 10 13-1/3, 20, 40, 50, 66-2/3, 100, 200

Operating Temperature: -25° to +85° C

- Output Circuit: (specify when ordering)
 - Single Ended:
 - 7273 open collector
 - (30 VDC max, 50 mA max)
 - 7272 Push-Pull
 - (50 mA max source or sink)
 - Differential Line Driver:
 - 7272 differential line driver
 - (output level same as supply voltage)
 - RS422 differential line driver
 - (with regulated 5vdc output level)

Output Waveshape:

Square wave output A is 50/50 duty cycle nominal. Output -A is the compliment of A.

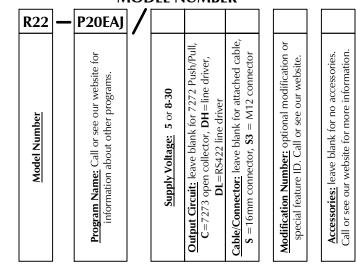
- Pulse symmetry: 180°±30%
- Pulse interval jitter: 30% max

Enhanced Anti-jitter: Developed for conveyor applications that typically operate in one direction, and do not want pulses generated if the conveyor stops or reverses for a short distance. Pulses are generated as long as rotation continues in one direction. If the direction reverses then pulse output ceases until it returns to its original direction and position it was at before reversing. If the reverse rotation exceeds 10 rotations then the encoder resets assuming the current direction is forward and begins pulsing.

Accessories

See our website or contact us for more information about cables, measuring wheels, and mounting hardware.

MODEL NUMBER



Example: R22-P20EAJ/8-30S MW20-3M R22 with P20EAJ program, 8-30 vdc, 7272 push/pull output, 16mm connector (6-pin), and accessories: MW-20 wheels, 3 meter cable