

Courier Series**Product Description**

Eaton's Courier Series is a high quality totalizer powered by a replaceable lithium battery.

Features

- Eight-digit totalizer
- 1/Tau ratemeter
- Scaling capabilities
- Remote reset terminal
- 0.43 in (10.9 mm) display
- Front panel reset
- NEMA 4X

Standards and Certifications

- CE marked

**Product Selection****When Ordering Specify**

When ordering Courier Series Electronic Totalizers and Ratemeters, specify order numbers according to the features selected.

Courier Series**Courier Series, Eight-Digit LCD**

Description	Catalog Number
Totalizer, battery	53300400
Add/subtract (10k Hz, PNP input) totalizer, battery	53300401
Add/subtract (20 Hz, NPN/contact input) totalizer, battery	53300402
Quadrature (10k Hz, PNP input) totalizer, battery	53300403
Totalizer/ratometer, battery	53300405
Totalizer/ratometer at 100 Hz, battery	53300465
RMF panel mount totalizer, key reset, 60–160 Vac/Vdc count input	53300800
RMF panel mount totalizer, dry contact input	53300850
RMF panel mount totalizer, 60–160 Vac/Vdc count input	53300851
Totalizer—extended temperature range, battery	53301400
Totalizer—1/Tau ratemeter—extended temperature range	53301404
Totalizer/ratometer—extended temperature range, battery	53301405
Totalizer/ratometer, mag pickup, battery	53301475
Backlight totalizer, battery	53302400
Backlight add/subtract (10k Hz, PNP input) totalizer, battery	53302401
Backlight add/subtract (20 Hz, NPN/contact input) totalizer, battery	53302402
Backlight quadrature (10k Hz, PNP input) totalizer, battery	53302403
Backlight totalizer/ratometer, battery	53302405

Technical Data and Specifications**General Specifications**

Description	Specification
Power	
Internal battery	3V, lithium
Life expectancy	5 years +
Replacement part	36367-202
Backlight	
Backlight	10–30 Vdc at 30 mA max. ① Reverse polarity protected
Physical	
Operating temperature	–4° to 158°F (–20° to 70°C)
Storage temperature	–4° to 158°F (–20° to 70°C)
Operating humidity	60% non-condensing
Weight	2.2 oz (62g) net
Figure size	0.43 in (10.9 mm) high
Front panel rating	NEMA 4X when mounted with gasket provided
Case material	Cyclac X-17
Totalizer	
Type	UP counting
Digits	Eight
Count Accuracy	
Operated within specifications	100%
DC Common (Terminal 1) Count Inputs	
Input B (terminal 2) low speed input designed for contact closures to DC common	
Speed	0 to 20 Hz
Min. low time	10 ms
Min. high time	40 ms
Input impedance	101k ohms
Voltage thresholds	
Low	0–0.4 Vdc
High	2.0–28 Vdc
Max. high	28 Vdc
Input A (terminal 3) high speed input requiring a voltage source such as a current sourcing sensor or a current sinking sensor used with the provided pull up resistors	
Speed	0 to 10 kHz
Min. low time ②	80 ms
Min. high time ②	20 ms
Input impedance	2k ohms above 5 Vdc
Voltage thresholds	
Low	0–1.2 Vdc
High	2.0–28 Vdc
Max. high	28 Vdc
Reset Input	
Reset input (terminal 4) designed for contact closures to DC common	
Min. low ③	0.25 to 1 sec. (reset is maintained)
Voltage thresholds	
Low	0–0.4 Vdc
High	2.0–28 Vdc
Front Panel Reset Enable	
Front panel reset enable (terminal 5)	
Operation	Level sensitive (maintained)

Notes

① Derate operating temperature 1°C/volt above 17 Vdc.

② The times are with a 0–5.0V swing.

③ The required pulse width varies with count speed, scale factor and number of digits displayed.

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Dimensions

Approximate Dimensions in Inches (mm)

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