



Figure similar

SIMATIC DP, electronic modules for ET 200pro EM 2 Count 24 V counter module for 2 incremental encoders 24 V including bus module, connection module ET 200pro CM Count 2 x M12 6ES7194-4CC10-0AA0 to be ordered separately

General information	
Product function	
• I&M data	Yes
• Isochronous mode	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	STEP 7 V19 or higher
• PROFINET from GSD version/GSD revision	GSDML V2.35
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from supply voltage 1L+, max.	30 mA; without output current for the 24 V Encoder supply
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	2
24 V encoder supply	
• 24 V	Yes; L+ (-0.8 V)
• Short-circuit protection	Yes; electronic/thermal
• Output current, max.	200 mA; Per channel
Power loss	
Power loss, typ.	0.65 W
Address area	
Address space per module	
• Address space per module, max.	8 byte
• Inputs	8 byte
• Outputs	0 byte
Digital inputs	
Cable length	
• shielded, max.	30 m
Encoder	
Connectable encoders	
• Incremental encoder (asymmetrical)	Yes
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Encoder signals, incremental encoder (asymmetrical)	
• Input voltage	24 V
• Input frequency, max.	200 kHz
• Counting frequency, max.	800 kHz

• Cable length, shielded, max. • Signal filter, parameterizable • Incremental encoder with A/B tracks, 90° phase offset • Incremental encoder with A/B tracks, 90° phase offset and zero track • pulse encoder • pulse encoder with direction • pulse encoder with one impulse signal per count direction	30 m Yes Yes Yes Yes Yes Yes		
Interface types			
• Sourcing/sinking input • Input characteristic curve in accordance with IEC 61131, type 3	Yes Yes		
Interrupts/diagnostics/status information			
Diagnostics function	Yes; Parameterizable		
Alarms			
• Diagnostic alarm	Yes		
Diagnoses			
• Diagnostic information readable • Wire-break • Short-circuit • A/B transition error at incremental encoder	Yes Yes Yes; Encoder supply to M, channel by channel Yes		
Diagnostics indication LED			
• ERROR LED • Channel status display • for channel diagnostics	Yes Yes Yes		
Integrated Functions			
Counter	Yes		
• Number of counters • Counting frequency, max.	2 800 kHz; with quadruple evaluation		
Fast mode	Yes		
Position detection			
• Incremental acquisition	Yes		
Potential separation			
Potential separation channels			
• between the channels • between the channels and backplane bus • Between the channels and load voltage L+	No Yes No		
Isolation			
Isolation tested with	707 V DC (type test)		
Security			
signed firmware update	Yes		
Connection method			
Design of electrical connection	M12, 5-pole		
Dimensions			
Width	45 mm		
Height	130 mm		
Depth	35 mm		
Weights			
Weight, approx.	150 g		
Classifications			
		Version	Classification
	eClass	14	27-24-26-05
	eClass	12	27-24-26-05
	eClass	9.1	27-24-26-05
	eClass	9	27-24-26-05
	eClass	8	27-24-26-05
	eClass	7.1	27-24-26-05
	eClass	6	27-24-26-05

ETIM	10	EC001601
ETIM	9	EC001601
ETIM	8	EC001601
ETIM	7	EC001601

Approvals / Certificates

General Product Approval

[Miscellaneous](#)
[Manufacturer Declaration](#)
[KC](#)
[China RoHS](#)



EMV

Maritime application



Maritime application



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