



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	
<ul style="list-style-type: none"> I&M data Isochronous mode 	<p>Yes</p> <p>No</p>
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision 	<p>STEP 7 V19 or higher</p> <p>GSDML V2.35</p>
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	
<ul style="list-style-type: none"> 24 V Short-circuit protection Output current, max. 	<p>Yes; L+ (-0.8 V)</p> <p>Yes; electronic/thermal</p> <p>200 mA; Per channel</p>
Power loss	
Power loss, typ.	0.65 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. Inputs Outputs 	<p>8 byte</p> <p>8 byte</p> <p>0 byte</p>
Digital inputs	
Cable length	
<ul style="list-style-type: none"> shielded, max. 	30 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> Incremental encoder (asymmetrical) 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	<p>Yes</p> <p>Yes</p> <p>1.5 mA</p>
Encoder signals, incremental encoder (asymmetrical)	
<ul style="list-style-type: none"> Input voltage Input frequency, max. Counting frequency, max. 	<p>24 V</p> <p>200 kHz</p> <p>800 kHz</p>

• Cable length, shielded, max.	30 m	
• Signal filter, parameterizable	Yes	
• Incremental encoder with A/B tracks, 90° phase offset	Yes	
• Incremental encoder with A/B tracks, 90° phase offset and zero track	Yes	
• pulse encoder	Yes	
• pulse encoder with direction	Yes	
• pulse encoder with one impulse signal per count direction	Yes	
Interface types		
• Sourcing/sinking input	Yes	
• Input characteristic curve in accordance with IEC 61131, type 3	Yes	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Parameterizable	
Alarms		
• Diagnostic alarm	Yes	
Diagnoses		
• Diagnostic information readable	Yes	
• Wire-break	Yes	
• Short-circuit	Yes; Encoder supply to M, channel by channel	
• A/B transition error at incremental encoder	Yes	
Diagnostics indication LED		
• ERROR LED	Yes	
• Channel status display	Yes	
• for channel diagnostics	Yes	
Integrated Functions		
Counter	Yes	
• Number of counters	2	
• Counting frequency, max.	800 kHz; with quadruple evaluation	
Fast mode	Yes	
Position detection		
• Incremental acquisition	Yes	
Potential separation		
Potential separation channels		
• between the channels	No	
• between the channels and backplane bus	Yes	
• Between the channels and load voltage L+	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](#)



[China RoHS](#)



EMV

Maritime application



Maritime application

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



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