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Data sheet 6ES7148-3FA00-0XB0



Figure similar

*** spare part *** SIMATIC DP, electronic module for ET200ECO, 4/8 F-DI PROFIsafe 24 V DC up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLe (ISO13849)

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	No
Input current	
from supply voltage 1L+, max.	100 mA
Encoder supply	
Number of outputs	2
Type of output voltage	min. L+ (-1.5 V)
Short-circuit protection	Yes
Output current	
● nominal	300 mA
Power loss	
Power loss, typ.	3 W
Digital inputs	
Number of digital inputs	8; 8 single channel, 4 two-channel
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
● Rated value (DC)	24 V
● for signal "0"	-30 to +5 V
● for signal "1"	+15 to +30 V
Input current	
● for signal "1", typ.	3.7 mA
Cable length	
● unshielded, max.	30 m
Encoder	
Connectable encoders	
● 2-wire sensor	No
Interfaces	
PROFIBUS DP	
● Transmission rate, max.	12 Mbit/s
Protocols	
PROFIBUS DP	Yes
Interrupts/diagnostics/status information	
Diagnoses	
● Diagnostic information readable	Yes

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Diagnostics indication LED	
● Group error SF (red)	Yes
● Status indicator digital input (green)	Yes
● Channel fault indicator F (red)	No
Potential separation	
between PROFIBUS DP and all other circuit components	Yes
Potential separation digital inputs	
● between the channels	No
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	500V AC for 1 minute
Degree and class of protection	
IP degree of protection	IP65/67
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
● acc. to EN 954	4
● Performance level according to ISO 13849-1	e
● SIL acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Connection method	
Design of electrical connection	4/5-pin M12 circular connectors
Dimensions	
Width	60 mm
Height	210 mm
Depth	28 mm
Weights	
Weight, approx.	220 g
Classifications	

	Version	Classification
eClass	16	27-24-26-04
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

General Product Approval	EMV	Functional Saftey	Maritime application

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China RoHS

RCM

TUEV

Type Examination Certificate

ABS

BUREAU VERITAS

Maritime application

DNV

LRS

NK / Nippon Kaiji Kyokai

PRS

RINA

RMRS

Maritime application

CCS (China Classification Society)

KR (Korean Register of Shipping)

last modified: 7/17/2025

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