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Data sheet 6ES7326-1RF01-0AB0



Figure similar

spare part SIMATIC S7, digital input SM 326, 8 DI; 24 V DC, NAMUR, fail-safe NAMUR input for SIMATIC S7 F-systems, up to category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 40-pole

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	90 mA
Encoder supply	
Number of outputs	8
Type of output voltage	8.2 V DC
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8
— up to 60 °C, max.	8
Input voltage	
● Type of input voltage	DC
Input current	
● for signal "0", max. (permissible quiescent current)	0.35 to 1.2 mA
● for signal "1", typ.	2.1 to 7 mA
Input delay (for rated value of input voltage)	
for NAMUR inputs	
— at "0" to "1", max.	1.2 to 3 ms
— at "1" to "0", max.	1.2 to 3 ms
Cable length	
● shielded, max.	200 m
● unshielded, max.	100 m
Interrupts/diagnostics/status information	
Alarms	
● Diagnostic alarm	Yes; Parameterizable
Diagnostics indication LED	
● Fail-safe operation	Yes
● Group error SF (red)	Yes
Ex(i) characteristics	
Module for Ex(i) protection	Yes
maximum values for connecting terminals for gas group IIC	

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● Uo (no-load voltage), max.	10 V
● Io (short-circuit current), max.	13.9 mA
● Po (power output), max.	33.1 mW
● Co (permissible external capacity), max.	3 µF
● Lo (permissible external inductivity), max.	80 mH
● Um (voltage at non-intrinsically safe connecting terminals), max.	60 V DC/30 V AC
Potential separation	
Potential separation digital inputs	
● between the channels	Yes
● between the channels and backplane bus	Yes
● between the channels and the power supply of the electronics	Yes
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
● acc. to EN 954	Cat. 4
● Performance level according to ISO 13849-1	PLe
● SIL acc. to IEC 61508	SIL 2 (single-channel), SIL 3 (two-channel)
Use in hazardous areas	
● ATEX certificate	99 ATEX 2671 X
Ambient conditions	
Ambient temperature during operation	
● max.	60 °C
Connection method	
required front connector	1x 40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	482 g

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

General Product Approval	**EMV**	**For use in hazardous locations**

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China RoHS

RCM

FM

ATEX

UL

CCC-Ex

For use in hazardous locations	Functional Saftey	Maritime application

ATEX

IECEx

CCC-Ex

TUEV

Type Examination Certificate

ABS

Maritime application

BUREAU VERITAS

DNV

LRS

NK / Nippon Kaiji Kyokai

PRS

RINA

Maritime application

CCS (China Classification Society)

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