

https://www.phoenixcontact.com/us/products/2316312



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Zone 1 installed device coupler for Foundation Fieldbus and PROFIBUS PA with terminal connections for 12 spurs connected to fieldbus end devices.



Your advantages

- · Provides current limiting short-circuit protection per spur
- Three isolation zones; Spurs 1-4, 5-8, and 9-12.
- · Single-sided plug configuration eliminates cable bend radius issues
- Connect up to 12 Foundation Fieldbus or PROFIBUS PA field devices located in Zone 0/1
- · Terminator preinstalled

Commercial data

Item number	2316312
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC144
Catalog page	Page 456 (C-6-2019)
GTIN	4055626276991
Weight per piece (including packing)	1,265 g
Weight per piece (excluding packing)	1,265 g
Customs tariff number	85369095
Country of origin	US



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Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product properties

Product type	Device coupler
Insulation characteristics	
Overvoltage category	II
Degree of pollution	2

Electrical properties

Supply

Supply voltage range	16 V DC 32 V DC (input on trunk line side)
Max. current consumption	50 mA (trunk, no load)
	550 mA (maximum trunk current)

Connection data

Supply

Conductor cross section, flexible	2.50 mm² 0.20 mm²
Conductor cross section, rigid	2.50 mm² 0.20 mm²
Conductor cross section, flexible [AWG]	24 12
Conductor cross section AWG	24 12

Ex data

Safety data

Input voltage U _i	32 V
Inductance Li	0 μΗ
Capacitance Ci	0 μF
Max. output voltage $\mathrm{U_o}$	16.7 V
Max. output current I _o	250 mA
Max. output power P _o	1.05 W
Safety-related maximum voltage $\mathbf{U}_{\mathbf{m}}$	253 V
IIC: Max. external inductivity $\rm L_{\rm o}$ / Max. external capacitance $\rm C_{\rm o}$	/ 0.39 µF
IIB: Max. external inductivity $\rm L_{\rm o}$ / Max. external capacitance $\rm C_{\rm o}$	/ 2.33 μF
IIC: Max. external inductivity $\rm L_{\rm o}$ / Max. external capacitance $\rm C_{\rm o}$	0.56 mH
IIB: Max. external inductivity $L_{\rm o}$ / Max. external capacitance $C_{\rm o}$	2.27 mH

Interfaces



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	PROFIBUS
ata: Foundation Fieldbus and PROFIBUS PA Segment	
Connection method	Pluggable COMBICON screw connection for each spur
No. of channels	12
Termination resistor	Integrated termination, activated with bridge located in correct terminals
Conductor cross section flexible max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section, rigid min.	0.2 mm²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24
Output nominal voltage	≤ 14 V (each spur)
Output current	35 mA (per spur)

Dimensions

Dimensional drawing	
Width	279 mm
Height	142 mm
Depth	66 mm

Material specifications

Flammability rating according to UL 94	0
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Cable/line

Cable impedance	Recommend Type A fieldbus cable
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP30 (over trunk connections)
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Max. permissible relative humidity (operation)	< 95 % (non-condensing)
Permissible humidity (operation)	95 % (non-condensing)
Shock	15g for 11 ms
Vibration (operation)	2g, 10 Hz 150 Hz

Approvals

ATEX



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Identification	II 2(1) G Ex eb ib mb [ia Ga] IIC T4 Gb II (1D) [Ex ia Da] IIIC FISCO power supply (spur)
Certificate	DEMKO 16ATEX 1689X
IECEx	
Identification	Ex eb ib mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC FISCO power supply (spur)
Certificate	IECEx UL 16.0114X
UKCA Ex (UKEX)	
Identification	II 2(1) G Ex eb ib mb [ia Ga] IIC T4 Gb II (1D) [Ex ia Da] IIIC FISCO power supply (spur)
Certificate	UL21UKEX2210X
CCC Ex	
Identification	Ex eb ib mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC
Ex data	
UL, USA / Canada	Install in Class I, Div. 2, Groups A, B, C, D Entity/FISCO spur to: Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III; Group IIIC Class I, Zone 1 AEx eb ib mb [ia Ga] IIC T4 Gb [AEx ia Da] IIIC FISCO power supply (spur) Ex eb ib mb [ia Ga] IIC T4 Gb [Ex ia Da] IIIC FISCO power supply (spur)
andards and regulations	
Standards/regulations	
Standards/regulations	Ring wave noise immunity in acc. with IEC 61000-4-12
Standards/regulations	
Standards/regulations	Dry heat in acc. with IEC 61131-2
Standards/regulations	
Standards/regulations	Damp heat in acc. with IEC 61131-2
	24p
Standards/regulations	
Standards/regulations	Shock and vibration in acc. with EN 61131-2 and EN 50178
Standards/regulations	IEC 61158-2
ounting	
ounting Mounting type	DIN rail mounting



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Classifications

UNSPSC 21.0

ECLASS

EC	CLASS-11.0	27242610
EC	CLASS-12.0	27242610
EC	CLASS-13.0	27242610
ETIM		
ET	TIM 9.0	EC001600
UNSPS	SC	

32151600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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