#### 2902035

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Universally configurable threshold value switch with changeover contact relay output and plug-in connection technology for switching analog limit values. Configurable via DIP switch or software. Push-in connection technology, standard configuration.

## Product description

Universally configurable threshold value switch with changeover contact relay output and plug-in connection technology for switching analog limit values. On the input side, current signals between 0 mA ... 24 mA and voltage signals between 0 V ... 12 V can be processed. A relay with changeover contact is available on the output side. It is then possible to switch loads up to 250 V / 6 A AC and 30 V / 4 A DC. You can configure the device using one of the free software solutions. Default settings can also easily be made directly on the device via DIP switches (see configuration table). The measuring transducer supports fault monitoring and NFC communication.

#### Commercial data

Item number	2902035
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK1127
Product key	DK1127
Catalog page	Page 94 (C-5-2019)
GTIN	4046356649711
Weight per piece (including packing)	118.5 g
Weight per piece (excluding packing)	68.7 g
Customs tariff number	85437090
Country of origin	DE

2902035

https://www.phoenixcontact.com/au/products/2902035



## Technical data

#### Notes

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

#### Product properties

Product type	Limit value switch
Product family	MINI Analog Pro
No. of channels	1
Туре	Signal conditioner
Configuration	DIP switches
	Software
	Арр
Insulation characteristics: GB Standard	
Overvoltage category	11
Pollution degree	2

#### System properties

Functionality	
Configuration	DIP switches
	Software
	Арр

#### **Electrical properties**

Electrical isolation between input and output	yes
Switching point accuracy	< 0.1 %
Step response (0–99%)	140 ms (can be set via software)
Maximum temperature coefficient	0.01 %/K
Maximum transmission error	0.1 % (of final value)
Electrical isolation Input/output/power supply	
Rated insulation voltage	300 V <sub>rms</sub>
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1
Supply	
Nominal supply voltage	24 V DC
Supply voltage range	9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)
Typical current consumption	40 mA (12 V DC)



https://www.phoenixcontact.com/au/products/2902035

	20 mA (24 V DC)
Power consumption (I output)	≤ 0.5 W

#### Input data

Signal: Voltage/current

Configurable/programmable	Yes
Voltage input signal	0 V 10 V (via DIP switch)
	0 V 12 V (can be set via software)
Max. voltage input signal	12 V
Current input signal	0 mA 20 mA (via DIP switch)
	0 mA 24 mA (can be set via software)
Max. current input signal	24 mA
Input resistance of voltage input	> 120 kΩ
Input resistance current input	50 $\Omega$ (+0.7 V for test diode)
Specification of the switching point	Can be set via software or in steps via DIP switches

#### Output data

#### Switching: Relay

Contact switching type	1 changeover contact
Contact material	AgSnO <sub>2</sub> , hard gold-plated
Maximum switching voltage	250 V AC
	30 V DC
	240 V AC (UL)
Limiting continuous current	6 A AC
	4 A DC
Min. switching current	100 mA (12 V DC)
Max. switching current	6 A AC (250 V AC)
	4 A DC (30 V DC)
Mechanical service life	2x 10 <sup>7</sup> cycles
Setting range of the response delay	0 s 10 s (can be set freely via software)
Internal hysteresis	can be set freely via software

#### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> (without ferrule)
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 12 (flexible)

### Ex data

Ex installation (EPL)	Gc
	Div. 2

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#### 2902035

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#### Interfaces

Data: IFS interface		
C	onnection method	Micro USB type B
Signaling		
St	tatus display	Green LED (supply voltage)
		Yellow LED (switching output)
E	rror indication	Red LED
Dimensions		
$\sim$	/idth	6.2 mm
H	eight	109.81 mm
D	epth	119.2 mm

#### Material specifications

Color	gray (RAL 7042)
Housing material	PBT
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

#### Environmental and real-life conditions

Ambient conditions		
Degree of protection	IP20 (not assessed by UL)	
Ambient temperature (operation)	-40 °C 70 °C	
Ambient temperature (storage/transport)	-40 °C 85 °C	
Altitude	≤ 2000 m	
Permissible humidity (operation)	5 % 95 % (non-condensing)	

#### Approvals

CE			
Certificate	CE-compliant		
ATEX			
Identification	🗟 II 3G Ex ec ic nC IIC T4 Gc		
Certificate	BVS 18 ATEX E 071 X		
IECEx			
Identification	Ex ec ic nC IIC T4 Gc		
Certificate	IECEx BVS 18.0060X		
UL, USA/Canada			
Identification	UL 508 Listed		
	Class I, Div. 2, Groups A, B, C, D T4A		

#### 2902035

https://www.phoenixcontact.com/au/products/2902035

	Class I, Zone 2, Group IIC T4A
Shipbuilding approval	
Certificate	DNV GL TAA000021E Rev. 1
EAC Ex	
Identification	배됴 LTEx ec ic nC IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00081
Shipbuilding data	
Temperature	В
Humidity	В
Vibration	A
EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board
//C data	
Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	
Standards/regulations	EN 61000-6-4
	GB/T 3836.1
GB Standard	GB/T 3836.1 GB/T 3836.3
andards and regulations GB Standard Standards/regulations	
GB Standard	GB/T 3836.3
GB Standard Standards/regulations	GB/T 3836.3 GB/T 3836.4
GB Standard	GB/T 3836.3 GB/T 3836.4
GB Standard Standards/regulations	GB/T 3836.3 GB/T 3836.4 GB/T 3836.8

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2902035

https://www.phoenixcontact.com/au/products/2902035

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## Drawings



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## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2902035

ERC	EAC Approval ID: RU*C-DE.*08.B.00010
	UL Listed Approval ID: E238705
۲	CCC Approval ID: 2021322304003825
Ŵ	CUL Listed Approval ID: E238705
	NV pproval ID: TAA000021E
II C IE	Approval ID: IECEx BVS 18.0060X
· <b>B</b>	CUL Listed Approval ID: E196811
	UL Listed Approval ID: E196811
<b>Æx</b>	ATEX Approval ID: BVS 18 ATEX E 071 X
à	NEPSI-EX Approval ID: GYJ20.1319X
EACE	EAC Ex Approval ID: TR TS_S_103.01.00081

2902035

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## Classifications

#### ECLASS

	ECLASS-13.0	27210120		
ETIM				
	ETIM 9.0	EC002653		
UNSPSC				
	UNSPSC 21.0	39121000		

2902035

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## Environmental product compliance

#### EU RoHS

Yes
7(a), 7(c)-l
EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
Lead(CAS: 7439-92-1)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
efc127c3-a1a3-46ec-bdeb-4185f9f6ba09

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