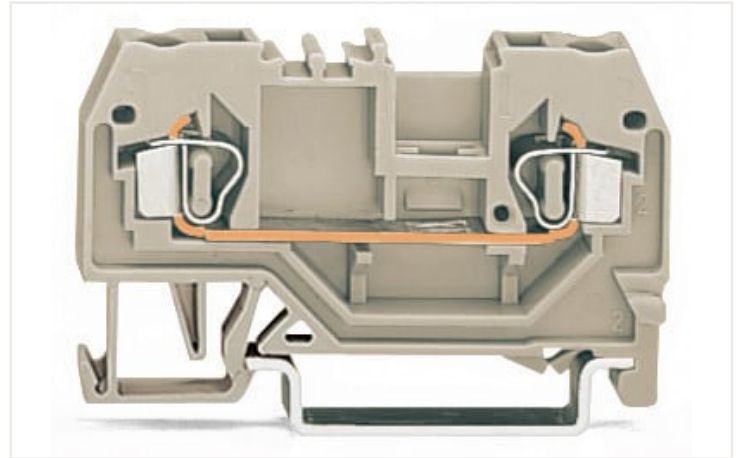
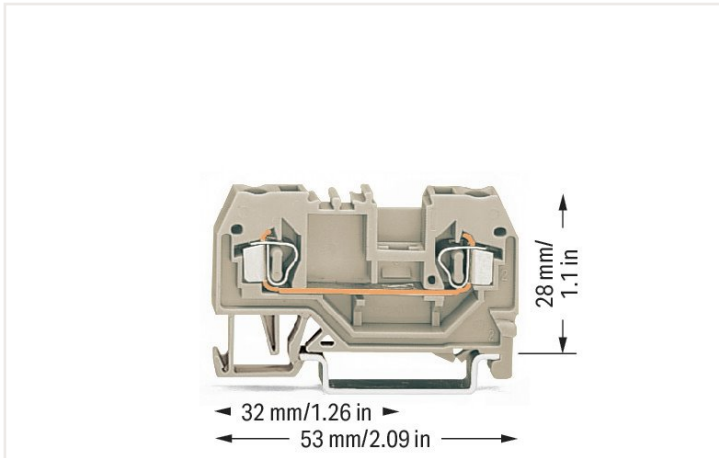


## Data sheet | Item number: 280-992

2-conductor through terminal block; 2.5 mm<sup>2</sup>; suitable for Ex e II applications; center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; light gray



<https://www.wago.com/280-992>



### Electrical data

#### Ratings per IEC/EN

Ratings per IEC/EN 60947-7-1

#### Ratings per UL

Approvals per UL 1059

Rated voltage UL (Use Group C) 600 V

Rated current UL (Use Group C) 20 A

#### Ratings per CSA

Approvals per CSA 22.2 No 158

Rated voltage CSA (Use Group C) 600 V

Rated current CSA (Use Group C) 24 A

#### Ex information

Reference hazardous areas See installation notes in section "Knowledge" and Downloads – Documentation – Additional Information: Technical Section; Technical explanations

Ratings per ATEX: PTB 99 ATEX 3109 U / IECEx: PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)

Rated voltage EN (Ex e II) 550 V

Note (rated voltage) Using staggered jumpers reduces the maximum rated voltage to 275 V.

Rated current (Ex e II) 23 A

### Power loss

Power loss, per pole (potential)	0.7036 W
Rated current $I_N$ for specified power loss	23 A
Resistance value for specified, current-dependent power loss	0.00133 $\Omega$

### Connection data

Total number of connection points	2
Total number of potentials	1
Number of levels	1

### Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum

#### Connectable conductor materials (note)

**Terminating Aluminum Conductors**  
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm<sup>2</sup>/12 AWG if WAGO "Alu-Plus" Contact Paste [249-130](#) is used for termination.

"Alu-Plus" Contact Paste Advantages:

- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.

It is also possible to apply WAGO "Alu-Plus" **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:  
2.5 mm<sup>2</sup> = 16 A  
4 mm<sup>2</sup> = 22 A

Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Wiring direction	Front-entry wiring

### Physical data

Width	5 mm / 0.197 inches
Height	53 mm / 2.087 inches
Depth from upper-edge of DIN-rail	28 mm / 1.102 inches

### Mechanical data

Mounting type	DIN-35 rail
Marking level	Center marking

### Material data

Note (material data)	<a href="#">Information on material data can be found here</a>
Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.105 MJ
Weight	5.6 g

### Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

### Commercial data

eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	100 Stück
Packaging type	Box
Country of origin VKOrg Germany	DE
GTIN	4044918392037
Customs tariff number VKOrg Germany	85369010000

### Approvals and certificates

#### Ex-Approvals



Approval	Standard	Certificate name
AEx UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt	UL 60079	E185892 (AEx e II resp. Ex e II)
ATEX Physikalisch Technische Bundesanstalt	IEC 60079-0	PTB 99 ATEX 3109 U (Ex eb IIC, IM 2 Ex eb IMb)
CCCEX CQST/CNEX	CNCA-C23-01	2020312313000232 (Ex eb IIC Gb, Ex eb I Mb)
EAC Brjansker Zertifizierungs- stelle	TP TC 012/2011	RU C-DE.AM02. B.00127/19
IECEX Physikalisch Technische Bundesanstalt	IEC 60079-0	IECEX PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb)

#### Country specific Approvals



Approval	Standard	Certificate name
CCA DEKRA Certification B.V.	EN 60947	2157201.01
CSA DEKRA Certification B.V.	C22.2	1536071

Ship Approvals



Approval	Standard	Certificate name
ABS American Bureau of Ship- ping	EN 60947	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2

UL-Approvals



Approval	Standard	Certificate name
UL Underwriters Laboratories Inc.	UL 1059	E45172

1 Compatible products

1.1 Required accessories

1.1.1 End plate

1.1.1.1 End plate



[Item no.: 280-356](#)  
End and intermediate plate; 2.5 mm thick;  
light gray



[Item no.: 209-191](#)  
Separator for Ex e/Ex i applications; 3 mm  
thick; 120 mm wide; orange



[Item no.: 209-190](#)  
Separator for Ex e/Ex i applications; 3 mm  
thick; 90 mm wide; orange



[Item no.: 280-357](#)  
Separator plate; 2 mm thick; oversized;  
light gray