

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE



II 2 GD

Ex eb IIC Gb

Modular TERMINAL Blocks: Z- Series

DEMKO 15 ATEX 1467U

IECEX ULD 15.0008U

UL21UKEX2117U

Standards:

EN IEC 60079-0:2018 and EN IEC 60079-7:2015 A1:2018

IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

Modular Terminal Blocks: ZDU/ZPE

Version:	ZDU 1.5/4AN*	Order No 1775580000
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in conjunction with:	ZPE 1.5/4AN*	Order No 1775620000
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Accessories:	Type	Order No
end plate	ZAP/TW ZDU1.5/4AN*	1776090000
end bracket	ZEW 35*	9540000000

Terminal rail	TS 35/... acc.to DIN EN 60715
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Cross-connection	Plugable*	Order No
	ZQV 1.5/2	1776120000
	ZQV 1.5/3	1776130000
	ZQV 1.5/4	1776140000
	ZQV 1.5/5	1776150000
	ZQV 1.5/10	1776200000

Insulation material:

- Type	Wemid
- Tracking resistance (A) to IEC 60112	CTI ≥ 600
- Flammability class to UL 94	V0
- Operating temperature range	-60°C...+110°C (insulating material limit)
- Ambient temperature range	-60°C...+40°C (for T6 applications)
- Ambient temperature range	-60°C...+55°C (for T5 applications)
- Ambient temperature range	-60°C...+70°C (for T4 applications)

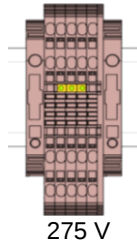
* in all colours

Technical data according to IEC/EN 60079-7 (increased safety "eb"):

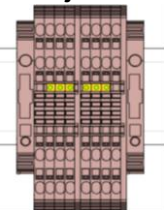
	ZDU 1.5/4AN	ZPE 1.5/4AN
- Rated voltage	550 V	
- Rated current	17 A / ΔT 40 K	
- Temperature rise with rated current	≤ 40 K / 17 A	
- Rated current with ZQV	16 A / ΔT 40 K	
- Contact resistance with rated conductor, 1.5 mm ²	1,4 m Ω	1,0 m Ω
- Rated conductor cross section	1,5 mm ²	1,5 mm ²
- Conductor cross section solid	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- Conductor cross section stranded	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- Conductor cross section flexible	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- cross section, American Wire Gauge	28 - 16 AWG	28 - 16 AWG
- conductor cross section flexible with ferrule acc. to DIN 46228 part 1	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- conductor cross section flexible with ferrule acc. to DIN 46228 part 4	0,5 - 1,0 mm ²	0,5 - 1,0 mm ²
- Stripping length	10 mm	10 mm

IECEx / ATEX / UKCA Terminal and Cross-Connection Arrangements:

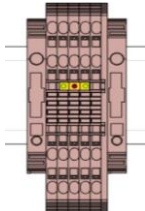
Max voltage data according to IEC/EN 60079-7 in conjunction with protective earth terminal blocks of the ZPE-Series, (increased safety "eb"):

Application Case**A - Continuous**

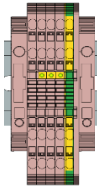
275 V

C - Adjacent – separated by a end plate

275 V

D - Intermediate - bridging one or more unconnected terminals

220 V

E - Next to a protective conductor terminal (earth) without a end plate

275 V

Information for further cross-connector arrangements will be provided on request.

Note:

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate of the complete apparatus.

Mounting instructions:

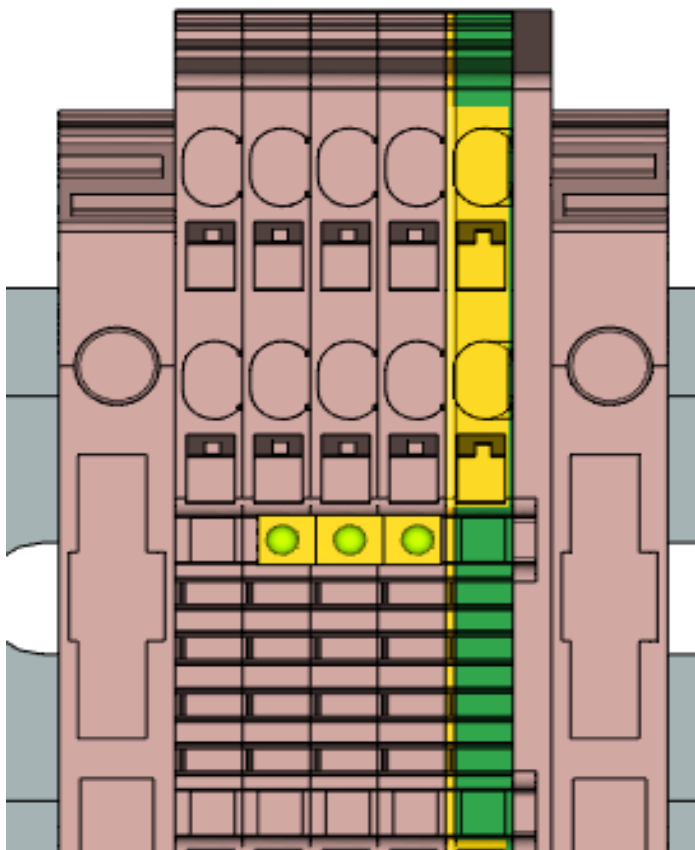
The ZDU/ZPE series is suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

Regarding the use of accessories the instructions of the manufacturer must be followed.

Schedule of Limitations:

The ZDU/ZPE terminals are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For combustible dust the enclosure must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

The terminal blocks shall be placed inside a suitable IECEx/ATEX/UKCA certified IP54 enclosure for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable IECEx/ATEX/UKCA certified 't' enclosure (IEC/EN60079-31).



terminal blocks is maximum 40 K, measured at
ed, the terminal blocks may be used in
block ambient temperature range is not
ny condition.

al blocks series or sizes or accessories the
IEC/EN60079-7 must be observed.
the instructions of the manufacturer must

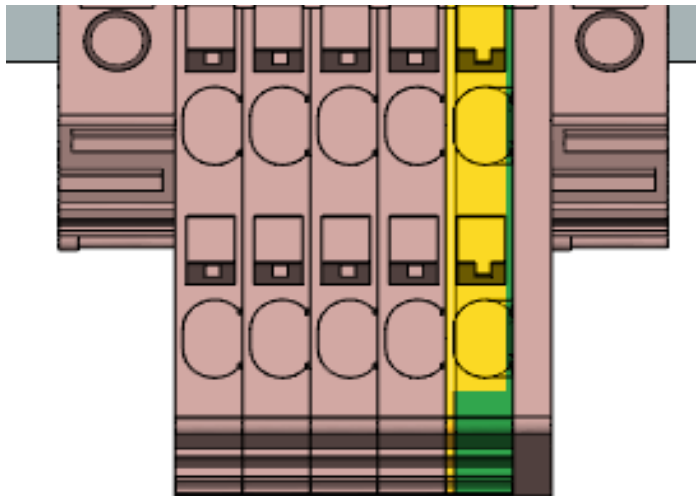
ss the terminal please refer to the table

that the test requirements of DIN 46228-1
the use of the appropriate Weidmüller
to the specified stripping length.

is must be used. The terminal blocks must
e or with an end plate.

s sections are used, then the corresponding
paratus.

e used.
ed.



Annex II of ATEX / Schedule 1 of UKCA
 use in Potentially Explosive Atmospheres
 The manufacturer declares compliance with
 standards including those of Annex II / Schedule 1 of