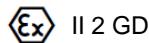


**INSTALLATION INSTRUCTIONS  
& CONDITIONS FOR SAFE USE**

Ex eb IIC Gb

**Modular TERMINAL Blocks: W- Series**

**DEMKO 15 ATEX 1357U  
IECEx ULD 15.0004U  
UL21UKEX2120U**

**Standards:**

EN IEC 60079-0:2018 and EN 60079-7:2015 A1:2018  
IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

**Modular Terminal Blocks: WFF**

	Type	Order No e.g.
Version:	WFF 35*	1028300000
	WFF 35/AH*	1029300000
Accessories:	Type	Order No e.g.
Partition Plate	WTW WFF35*	1067100000
End bracket	WEW 35/1*	1059000000
	MEW 35/1	1805610000
Terminal rail	TS 35/... acc.to IEC 60715	
Cross-connection	Pluggable*	Order No e.g.
	WQL 2 WFF35	1064900000
	WQL 3 WFF35	1065400000
Auxiliary /control line connection	Type	Order No
	WZAF 35	1070500000

**Insulation material:**

- Type	Wemid
- Tracking resistance (A) to IEC 60112	CTI $\geq$ 600
- Operating temperature range	-60°C...+100°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...+60°C (for T4 applications)

\* in all colours

**Technical data according to IEC/EN 60079-7 (increased safety "eb"):****WFF 35  
WFF 35/AH**

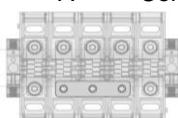
- Rated voltage	1100 V
- Rated current	125 A / ΔT 40 K
- Rated current with WQL	125 A / ΔT 40 K
- Contact resistance with rated conductor, 35 mm <sup>2</sup>	0,1 mΩ
- Rated conductor cross section	35 mm <sup>2</sup>
- Cable lug acc. to DIN 46234	2,5 - 35 mm <sup>2</sup>
- Cable lug acc. to DIN 46234	6 - 25 mm <sup>2</sup>
- 2 x Cable lug acc. to DIN 46234	2,5 - 35 mm <sup>2</sup>
- 2 x Cable lug acc. to DIN 46235	6 - 25 mm <sup>2</sup>
- cross section, American Wire Gauge	14 - 2 AWG
- Tightening torque range, terminal screw	3 - 6 Nm

*Use of the auxiliary /control line connection WZAF 35*

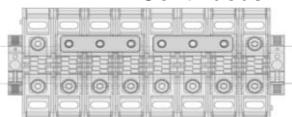
- Rated voltage	690 V
- Rated current	10 A / ΔT 40 K

-	Type	Order No
-	LIR 1,5M3 V	9200070000
-	LIR 1,5M3,5 V	9200080000
-	LIR 2,5M3 V	9200150000
-	LIR 2,5M3,5 V	9200160000

- Conductor cross section      1,5 - 2,5 mm<sup>2</sup>  
- Tightening torque range, terminal screw      0,5 Nm

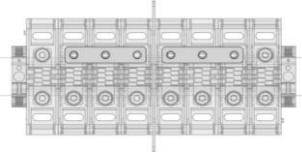
**IECEx / ATEX / UKCA Terminal and Cross-Connector Arrangements:****Max voltage data according to IEC/EN 60079-7 of the WFF-Series, (increased safety "eb"):****Application Case****A      Continuous**

Snap-on the DIN Rail	1100 V
Direct mounting with fixing screw (DIN 7984)	1100 V
Direct mounting with fixing screw (DIN 4762)	1100 V

**B      Continuous with 2 cross-connections**

Snap-on the DIN Rail	1100 V
Direct mounting with fixing screw (DIN 7984)	1100 V
Direct mounting with fixing screw (DIN 4762)	1100 V

C      Adjacent – separated by a partition plate



Snap-on the DIN Rail	1100 V
Direct mounting with fixing screw (DIN 7984)	1100 V
Direct mounting with fixing screw (DIN 4762)	1100 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 WFF 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.

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. 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 certified 't' enclosure (IEC/EN60079-31).

**Schedule of Limitations:**

The terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 100 °C under any condition.

T6 (- 60°C ... +40 °C)

T5 (- 60°C ... +55 °C)

T4 (- 60°C ... +60 °C)

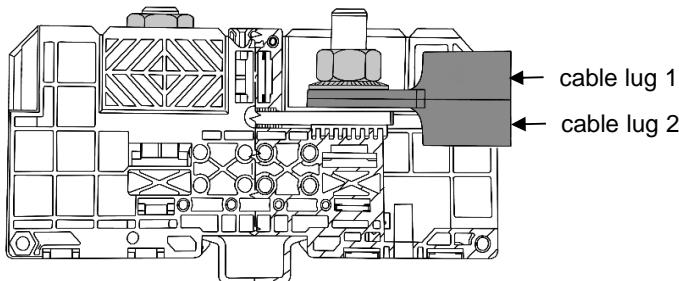
When using the type WFF especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to IEC/EN 60079-7 must be observed.

Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

For cross connection accessories current rating, resistance across the terminal please refer to the table under "Technical data" above.

The terminal can be used with either one or two wires into either side of the terminal. When two wires are used they must be of the same type, and of equal sizes. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.

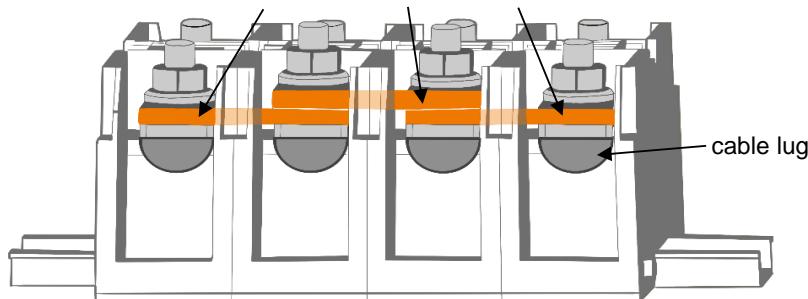
Use of 2 cable lugs acc. to DIN 46234 or DIN 46235:



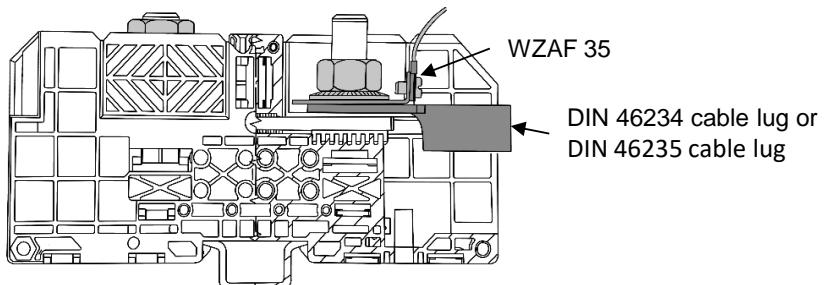
The cable lugs of neighbouring terminals have to be installed parallel to each other.

Use the cross connection possibility "Extend":

e. g. 3 x WQL 2 WFF 35



Use the assembly auxiliary / control line connection WZAF 35:



If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

Unused terminals shall be tightened.

**Essential Health and Safety Requirements:**

Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX / Schedule 1 of UKCA directive and Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II / Schedule 1 of these Directives.