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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm² - 10 mm², AWG: 24 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 32

### Why buy this product

MI universal terminal blocks in the UK... series can also be used in the Ex e area according to IEC/EN 60079 as standard

The corresponding EC-type examination numbers for Ex approval can be found in the technical connection data



### **Key Commercial Data**

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 017918 090821
GTIN	4017918090821
Weight per Piece (excluding packing)	13.010 g
Custom tariff number	85369010
Country of origin	China

### Technical data

#### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	6 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III



### Technical data

### General

Insulating material group	I
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal current I <sub>N</sub>	41 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.2 mm² / 0.2 kg
	6 mm <sup>2</sup> / 1.4 kg
	10 mm² / 2 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	6 mm²
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm²
Tractive force setpoint	90 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	5 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	6 mm²
Short-time current	0.72 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C



### Technical data

### General

Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

### Dimensions

Width	8.2 mm
End cover width	1.8 mm
Length	42.5 mm
Height NS 35/7,5	47 mm
Height NS 35/15	54.5 mm
Height NS 32	52 mm

#### Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	10 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²
Cross section with insertion bridge, solid max.	4 mm²
Cross section with insertion bridge, stranded max.	4 mm²
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>



### Technical data

### Connection data

2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	4 mm²
Cross section with insertion bridge, stranded max.	4 mm²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm²
Stripping length	10 mm
Internal cylindrical gage	A5
Screw thread	M4
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

### **Environmental Product Compliance**

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

Circuit diagram





### Classifications

### eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

#### **ETIM**

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897

#### **UNSPSC**

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

### **Approvals**

### Approvals

### Approvals

 ${\sf CSA/UL\,Recognized/KEMA-KEUR/cUL\,Recognized/LR/RS/PRS/KR/NK/LR/EAC/EAC/IECEE\,CB\,Scheme/DNV\,GL/LR/cULus\,Recognized} \\$ 

#### Ex Approvals

IECEx / ATEX / UL Recognized / cUL Recognized / EAC Ex / GL / cULus Recognized

### Approval details

CSA	<b>®</b>	http://www.csagroup.org/services/testing- and-certification/certified-product-listing/		13631
mm²/AWG/kcmil		26-8		



### Approvals

Nominal current IN	50 A
Nominal voltage UN	600 V

UL Recognized	<i>5</i> /1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 60425
mm²/AWG/kcmil			26-8	
Nominal current IN			50 A	
Nominal voltage UN			600 V	

KEMA-KEUR	KEMA	http://www.dekra-certification.com	2191242.01
mm²/AWG/kcmil		6	
Nominal current IN		41 A	
Nominal voltage UN		800 V	

cUL Recognized	. <b>511</b>	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE		FILE E 60425
mm²/AWG/kcmil			26-8	
Nominal current IN			50 A	
Nominal voltage UN			600 V	

LR	Lloyds Register	http://www.lr.org/en	96/20013
mm²/AWG/kcmil		6	
Nominal current IN		41 A	
Nominal voltage UN		800 V	

RS	http://www.rs-head.spb.ru/en/index.php	10.04059.250
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### Approvals

PRS		http://www.prs.pl/	TE/1824/880590/09
KR	KR KOREAN REGISTER	http://www.krs.co.kr/eng/main/main.aspx	HMB17372-EL001
NK	ClassNK	http://www.classnk.or.jp/hp/en/	09 ME 141
LR	Lloyds Register	http://www.lr.org/en	96/20013
mm²/AWG/kcmil		10	
Nominal current IN		57 A	
Nominal voltage UN		800 V	
EAC	ERC		EAC-Zulassung
EAC	EAC		7500651.22.01.00246
IECEE CB Scheme	<b>CB</b> scheme	http://www.iecee.org/	NL-39958_A1
mm²/AWG/kcmil		6	
Nominal current IN		41 A	
Nominal voltage UN		800 V	
The standard of the standard o		1 222 .	
DNV GL		https://www.dnvgl.com/	TAE00001CT



### Approvals

LR	Lloyds Register	http://www.lr.org/en	96/20013
mm²/AWG/kcmil		2.5	
Nominal current IN		24 A	
Nominal voltage UN		800 V	

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

### Accessories

Accessories

Cover profile

Cover profile - EA 5-WS - 1024085



Single covers, for covering one terminal block, with black symbol (lightning flash) snap fit, color: transparent/yellow

Cover profile - EA 5 - 1024014



Single covers, color: transparent

### DIN rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m  $\,$ 



### Accessories

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m

DIN rail perforated - NS 35/7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/7,5 WH PERF 2000MM - 1204119



DIN rail 35 mm (NS 35)

DIN rail - NS 35/7,5 WH UNPERF 2000MM - 1204122



DIN rail 35 mm (NS 35)



### Accessories

DIN rail, unperforated - NS 35/7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

DIN rail perforated - NS 35/7,5 ZN PERF 2000MM - 1206421



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

End cap - NS 35/7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5





### Accessories

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm



### Accessories

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Width: 35 mm, Height: 15 mm, Length: 2000 mm, Color: silver

End block



### Accessories

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End clamp - E/UK - 1201442



End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

End cover



### Accessories

End cover - D-UK 4/10 - 3003020



End cover, Length: 42.5 mm, Width: 1.8 mm, Height: 35.9 mm, Color: gray

### Insertion bridge

Insertion bridge - EB 2- 8 - 0202154



Insertion bridge, Pitch: 8 mm, Number of positions: 2, Color: gray

Insertion bridge - EB 3- 8 - 0202141



Insertion bridge, Pitch: 8 mm, Number of positions: 3, Color: gray

Insertion bridge - EB 4- 8 - 0202142



Insertion bridge, Pitch: 8 mm, Number of positions: 4, Color: gray

Insertion bridge - EB 10-8 - 0202138



Insertion bridge, Pitch: 8 mm, Number of positions: 10, Color: gray



### Accessories

Insertion bridge - EB 1/3/5/7-8 - 3072340



Insertion bridge, Pitch: 16.4 mm, Length: 24 mm, Width: 55.4 mm, Number of positions: 4, Pin assignment: 1, 3, 5, 7, Color: gray

Insertion bridge - EB 1/3/5-8 - 3072341



Insertion bridge, Pitch: 16.4 mm, Length: 24 mm, Width: 39 mm, Number of positions: 3, Pin assignment: 1,3,5, Color: gray

### Insulating sleeve

Bridge bar isolator - IS-K 10 - 1303337



Bridge bar isolator, Color: gray

Insulating sleeve - PS-IH WH - 0311566



Insulating sleeve, Color: white

Insulating sleeve - PS-IH RD - 0311579



Insulating sleeve, Color: red



### Accessories

Insulating sleeve - PS-IH BU - 0311582



Insulating sleeve, Color: blue

Insulating sleeve - PS-IH YE - 0311595



Insulating sleeve, Color: yellow

Insulating sleeve - PS-IH GN - 0311605



Insulating sleeve, Color: green

Insulating sleeve - PS-IH GY - 0311621



Insulating sleeve, Color: gray

Insulating sleeve - PS-IH BK - 0311634



Insulating sleeve, Color: black



#### Accessories

Insulating sleeve - PS-IH VT - 0311618



Insulating sleeve, Color: violet

#### Labeled terminal marker

Zack marker strip - ZB 8 CUS - 0825011



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

Marker for terminal blocks - UC-TM 8 CUS - 0824597



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 8 CUS - 0829616



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Zack marker strip - ZB 8,LGS:FORTL.ZAHLEN - 1052015



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm



### Accessories

Zack marker strip - ZB 8,QR:FORTL.ZAHLEN - 1052028



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

Marker for terminal blocks - ZB 8,LGS:L1-N,PE - 1052413



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

#### Partition plate

Separating plate - TS-K - 1302215



Separating plate, Length: 22 mm, Width: 0.5 mm, Height: 22 mm, Color: gray

Partition plate - ATP-UK - 3003224



Partition plate, Length: 56 mm, Width: 1.5 mm, Height: 45.7 mm, Color: gray

#### Screw bridge

Jumper - ISSBI 10-8 - 0301534



Jumper, Pitch: 8 mm, Number of positions: 10, Color: silver



### Accessories

Fixed bridge - FBI 2-8 - 0200020



Fixed bridge, Pitch: 8 mm, Number of positions: 2, Color: silver

Fixed bridge - FBI 3-8 - 0200059



Fixed bridge, Pitch: 8 mm, Number of positions: 3, Color: silver

Fixed bridge - FBI 4-8 - 0200046



Fixed bridge, Pitch: 8 mm, Number of positions: 4, Color: silver

Fixed bridge - FBI 10-8 - 0203263



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver

Fixed bridge - FBI 10- 8-EX - 0711700



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver



### Accessories

Fixed bridge - FB 2-8 - 0202196



Fixed bridge, Pitch: 8 mm, Number of positions: 2, Color: silver

Fixed bridge - FB 2- 8-EX - 3029224



Fixed bridge, Pitch: 8 mm, Number of positions: 2, Color: silver

Fixed bridge - FB 3-8 - 0202167



Fixed bridge, Pitch: 8 mm, Number of positions: 3, Color: silver

Fixed bridge - FB 4-8 - 0202183



Fixed bridge, Number of positions: 4, Color: silver

Fixed bridge - FB 10- 8 - 0202170



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver



### Accessories

Fixed bridge - FB 10- 8-EX - 3003185



Fixed bridge, Pitch: 8 mm, Number of positions: 10, Color: silver

#### Short-circuit connector

Short-circuit connector - KSS 8 - 0311540



Short-circuit connector, Pitch: 8 mm, Number of positions: 2, Color: black

#### Switching jumper

Switching jumper - SB 2- 8/13 N - 0200062



Switching jumper, Pitch: 13 mm, Number of positions: 2, Color: silver

#### Terminal marking

Marker card - SBS 8:UNBEDRUCKT - 1007235



Marker card, Card, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, Snap into flat marker groove, for terminal block width: 8.2 mm, Lettering field: 6 x 8.1 mm

#### Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm



#### Accessories

Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, THERMOMARK CARD, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Test plug terminal block

Test plugs - PS-MT - 0311647



Test plugs, Color: silver

Test socket

Female test connector - PSBJ 4/15/6 FARBLOS - 0303419



Female test connector, Color: transparent

Female test connector - PSBJ 4/15/6 WH - 0303312



Female test connector, Color: white



### Accessories

Female test connector - PSBJ 4/15/6 RD - 0303325



Female test connector, Color: red

Female test connector - PSBJ 4/15/6 BU - 0303354



Female test connector, Color: blue

Female test connector - PSBJ 4/15/6 YE - 0303367



Female test connector, Color: yellow

Female test connector - PSBJ 4/15/6 GN - 0303370



Female test connector, Color: green

Female test connector - PSBJ 4/15/6 VT - 0303383



Female test connector, Color: violet



### Accessories

Female test connector - PSBJ 4/15/6 GY - 0303396



Female test connector, Color: gray

Female test connector - PSBJ 4/15/6 BK - 0303406



Female test connector, Color: black

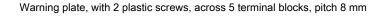
Female test connector - PSB 4/7/6 - 0303299



Female test connector, Color: silver

Warning label printed

Warning label - WS 5- 8 - 1004416





Warning label - WS 4-8 - 1004212

Warning plate, with 2 plastic screws, across 4 terminal blocks, pitch 8 mm





### Accessories

Warning label - WS 3- 8 - 1004128

Warning plate, with 2 plastic screws, across 3 terminal blocks, pitch 8 mm



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