



PID Connection

The PID (Push-In Design) allows direct insertion of conductors eliminating the need for tools for a quick connection. High quality conducting materials are used in the Opto Relay for low connection resistance and high conducting performance.



LED Indicator

The LED indicator is able to show the status of the operation. Users can easily read and be aware of the operation status in dimly lit environments.



Marking Label & Printing

Marking labels and printing on the housing are available for identifying the wire connections. This helps ensure the correct relay position and makes the wiring installation more efficient.



Insertion Cross Jumper

The jumper, part number DSD05-6.2XX, is a helpful accessory. It makes the connection of adjacent poles easier and facilitates the setup of the power distribution. The jumpers can easily be inserted into the slot of the Opto Relay maintaining a flat surface on the housing. The inserted jumper doesn't affect the overall dimension of the relay housing nor obstruct the wiring entrance.



Slim Design

The DINKLE Opto Relay has a slim 6.2mm design thickness. Compared to a traditional relay, it saves 70% in space. It is advantageous for high-density wiring applications.



Features of the NEW RE Series Opto Relay Include:

- Printing & marking labels are clear and user-friendly helping wiring connections correctly.
- Low temperature increase ensures product safety vs. traditional relay modules.
- Spark & arcing free, superior insulation & safety compared to traditional relays.
- 100 times faster switching frequency for high precision requirements.
- The Opto Relay offers greater longevity and a low defective rate.
- Both the input & output sides can accommodate cross jumpers.
- Space savings of 70% vs. traditional relay modules.
- Marking label easily identifies wiring connections.
- UL 508 and product category NRNT recognized.
- LED indicator shows the status of operation.



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本公司對產品保有修改、設變權。目錄僅供參考，實際產品仍需依照工程圖面為準。

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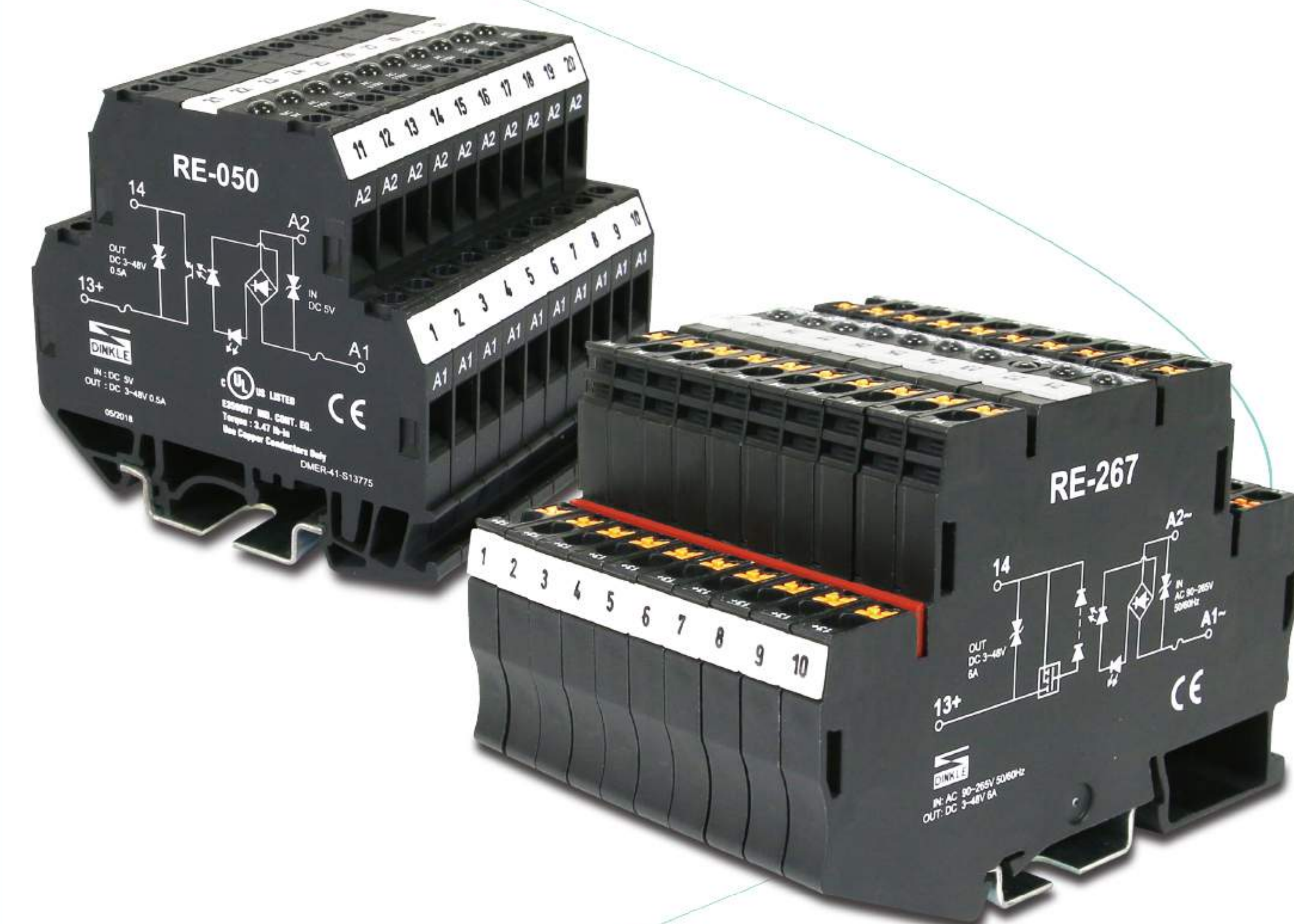
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Opto Relay

Delight Through Connections!!



町洋國際股份有限公司
DINKLE INTERNATIONAL CO., LTD.

Aug./2018

DC-28.1

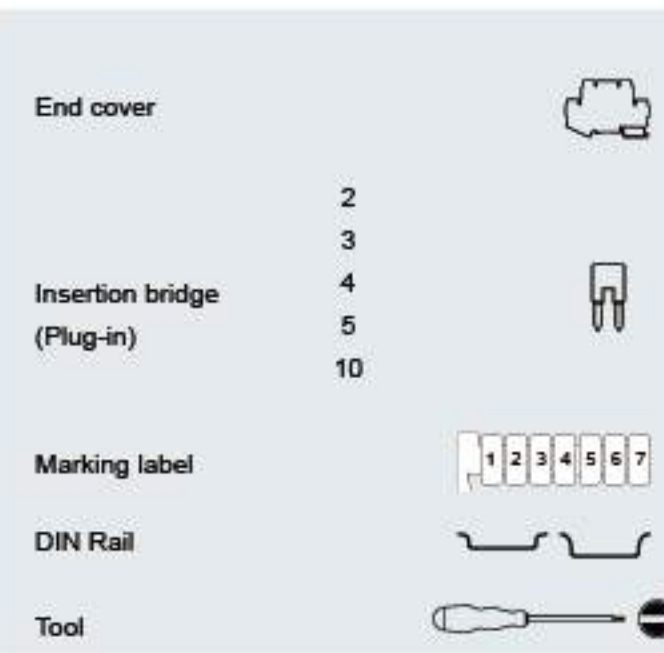


The opto relay adopts PID (Push-in design) clamping structure, it helps to save valuable wiring time and just by pressing the orange button to release the wire easily. Clear printing and labeling is standard to help reduce installation errors.

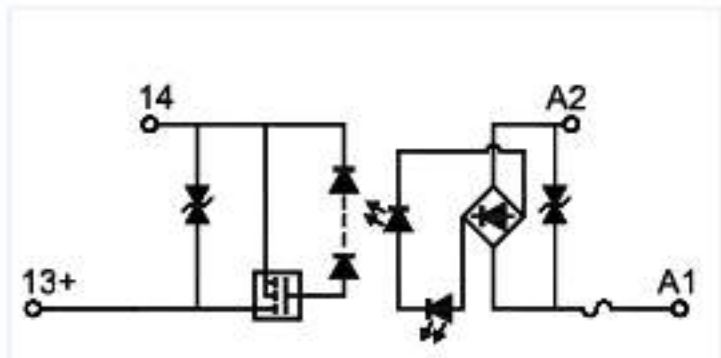
The opto relay has a compact housing with only 6.2mm thickness and it is double-level wiring connection, it is suitable to support signal transition, isolation, adjustment or amplification.



Push-in connection



RE-2604



Technical Data  UL in progress.	
Input (Control side) Data	
Rated input voltage	5VDC
Rated input current	10-15mA
Status indicator	(Red) LED
Max. Switching frequency	10-200Hz*
Input polarity	Bipolar
Gate voltage ON / OFF	4.7 / 3.3VDC

Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	6A
Voltage drop at Max	<0.1V
Leakage current	≐0A

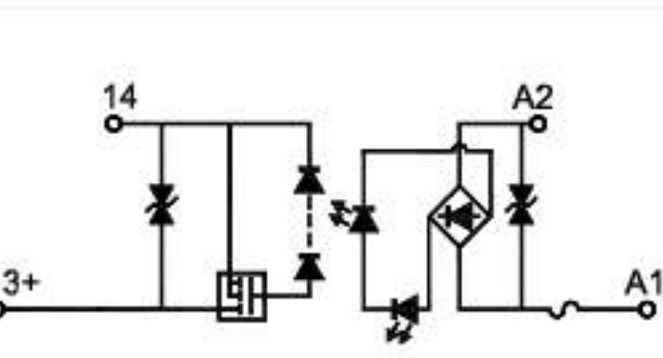
General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	PID connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	10
Insulating material	PA
Torque (N·m / lb·in)	-
TxW (mm)	6.2X91
H(TS-35N TS-35/15N) (mm)	63.2 / 70.7
Package	10pcs

Accessories Part No.	
-	
DSD05-6.202 DSD05-6.203 DSD05-6.204 DSD05-6.205 DSD05-6.210	
TM43W	
TS-35N TS-35/15N	
0.6 x 3.0 mm	

* 10Hz - full load at 6A.



RE-2614



Technical Data  UL in progress.	
Input (Control side) Data	
Rated input voltage	24VDC
Rated input current	10-15mA
Status indicator	(Red) LED
Max. Switching frequency	10-200Hz*
Input polarity	Bipolar
Gate voltage ON / OFF	22 / 18VDC

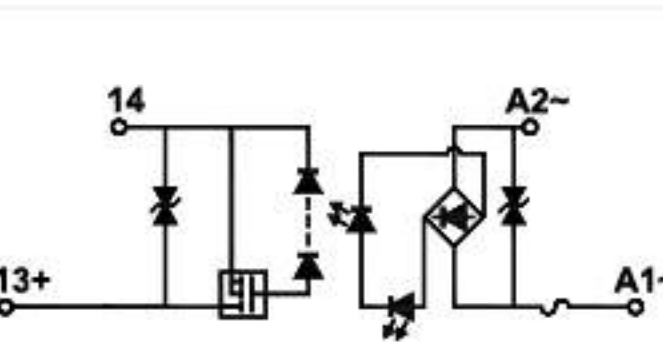
Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	6A
Voltage drop at Max	<0.1V
Leakage current	≐0A

General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	PID connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	10
Insulating material	PA
Torque (N·m / lb·in)	-
TxW (mm)	6.2X91
H(TS-35N TS-35/15N) (mm)	63.2 / 70.7
Package	10pcs

Accessories Part No.	
-	
DSD05-6.202 DSD05-6.203 DSD05-6.204 DSD05-6.205 DSD05-6.210	
TM43W	
TS-35N TS-35/15N	
0.6 x 3.0 mm	



RE-2674



Technical Data  UL in progress.	
Input (Control side) Data	
Rated input voltage	90~265VAC
Rated input current	10mA
Status indicator	(Red) LED
Max. Switching frequency	60Hz
Input polarity	Bipolar
Gate voltage ON / OFF	50 / 50VAC

Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	6A
Voltage drop at Max	<0.1V
Leakage current	≐0A

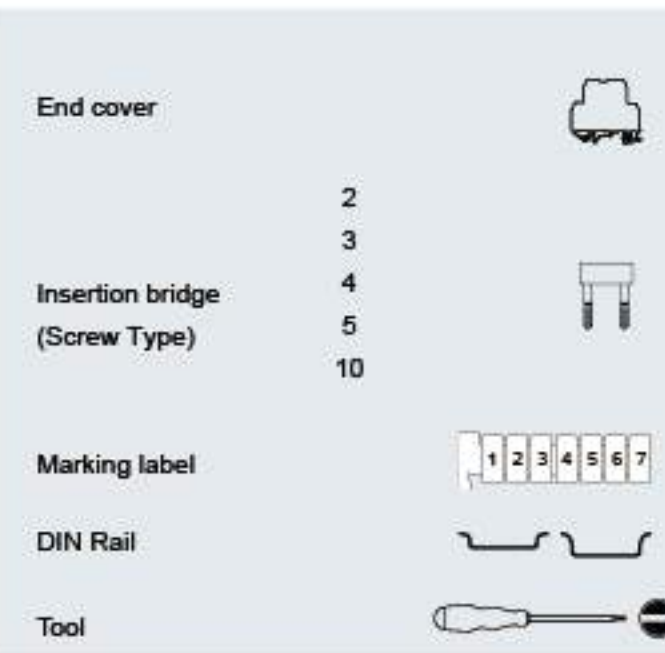
General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	PID connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	10
Insulating material	PA
Torque (N·m / lb·in)	-
TxW (mm)	6.2X91
H(TS-35N TS-35/15N) (mm)	63.2 / 70.7
Package	10pcs

Accessories Part No.	
-	
DSD05-6.202 DSD05-6.203 DSD05-6.204 DSD05-6.205 DSD05-6.210	
TM43W	
TS-35N TS-35/15N	
0.6 x 3.0 mm	

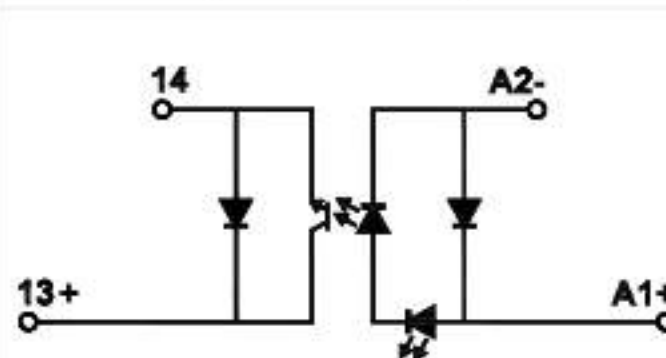


The slim opto relay has a thickness of 6.1mm, it is perfect for space restricted control cabinet. The traditional screw connection offers the secure wire connection and no maintenance, it is the most cost effective method of wiring solution. The opto rely has a quick max. switching frequency at 10kHz which is suitable for any industrial and interface applications.

Screw connection



RE-0014
(RE-0014C)*



Technical Data  US LISTED 	
Input (Control side) Data	
Rated input voltage	5~30VDC
Rated input current	6mA
Status indicator	(Red) LED
Max. Switching frequency	10KHz
Input polarity	Monopolar
Gate voltage ON / OFF	3.2 / 3.2VDC (LED off at 2.5VDC)

Output (Load side) Data	
Rated Switching voltage	3~30VDC
Continuous current	100mA
Voltage drop at Max	<1V
Leakage current	≐0A

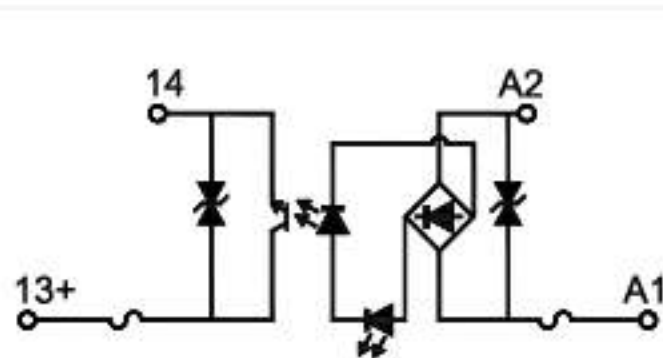
General Data	
Connection type	NPN (Sink)
Connection method	Screw connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	7~8
Insulating material	PA
Torque (N·m / lb·in)	0.6 / 5.3
TxW (mm)	6.1 x 67.85
H(TS-35N TS-35/15N) (mm)	61.5 / 69.0
Package	10pcs

Accessories Part No.	
DMERC-BK	
CSC-402PN CSC-403PN CSC-404PN CSC-405PN CSC-410PN	
TM43W	
TS-35N TS-35/15N	
0.5 x 3.0 mm	

* Product with cover.



RE-0504
(RE-0504C)*



Technical Data  US LISTED 	
Input (Control side) Data	
Rated input voltage	5VDC
Rated input current	15~18mA
Status indicator	(Red) LED
Max. Switching frequency	1kHz
Input polarity	Bipolar
Gate voltage ON / OFF	4.7 / 4.2VDC

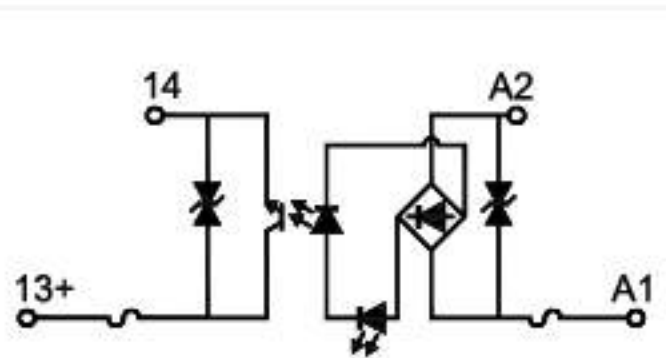
Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	500mA
Voltage drop at Max	≐1V
Leakage current	≐0A

General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	Screw connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	7~8
Insulating material	PA
Torque (N·m / lb·in)	0.4 / 3.47
TxW (mm)	6.1 x 67.85
H(TS-35N TS-35/15N) (mm)	61.5 / 69.0
Package	10pcs

Accessories Part No.	
DMERC-BK	
CSC-402PN CSC-403PN CSC-404PN CSC-405PN CSC-410PN	
TM43W	
TS-35N TS-35/15N	
0.5 x 3.0 mm	



RE-0514
(RE-0514C)*



Technical Data  US LISTED 	
Input (Control side) Data	
Rated input voltage	24VDC
Rated input current	12~14mA
Status indicator	(Red) LED
Max. Switching frequency	1kHz
Input polarity	Bipolar
Gate voltage ON / OFF	21.5 / 19.5VDC

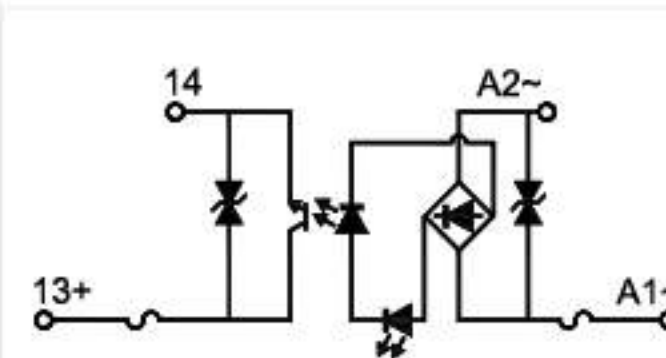
Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	500mA
Voltage drop at Max	≐1V
Leakage current	≐0A

General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	Screw connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	7~8
Insulating material	PA
Torque (N·m / lb·in)	0.4 / 3.47
TxW (mm)	6.1 x 67.85
H(TS-35N TS-35/15N) (mm)	61.5 / 69.0
Package	10pcs

Accessories Part No.	
DMERC-BK	
CSC-402PN CSC-403PN CSC-404PN CSC-405PN CSC-410PN	
TM43W	
TS-35N TS-35/15N	
0.5 x 3.0 mm	



RE-0554
(RE-0554C)*



Technical Data  US LISTED 	
Input (Control side) Data	
Rated input voltage	95~125VAC
Rated input current	0.6~1.3mA
Status indicator	(Red) LED
Max. Switching frequency	60Hz
Input polarity	Bipolar
Gate voltage ON / OFF	50 / 50VAC

Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	500mA
Voltage drop at Max	≐1.5V
Leakage current	≐0A

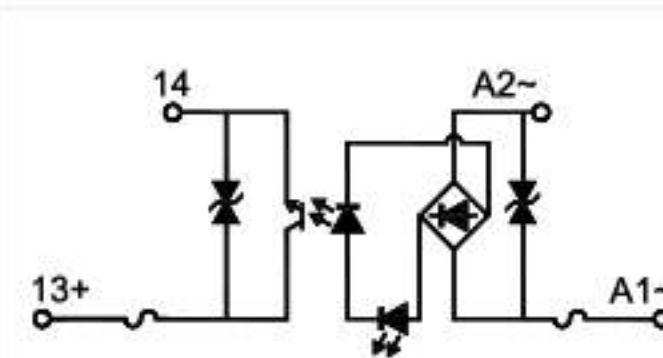
General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	Screw connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	7~8
Insulating material	PA
Torque (N·m / lb·in)	0.4 / 3.47
TxW (mm)	6.1 x 67.85
H(TS-35N TS-35/15N) (mm)	61.5 / 69.0
Package	10pcs

Accessories Part No.	
DMERC-BK	
CSC-402PN CSC-403PN CSC-404PN CSC-405PN CSC-410PN	
TM43W	
TS-35N TS-35/15N	
0.5 x 3.0 mm	

* Product with cover.



RE-0564
(RE-0564C)*



Technical Data  US LISTED 	
Input (Control side) Data	
Rated input voltage	200~240VAC
Rated input current	0.6~1.1mA
Status indicator	(Red) LED
Max. Switching frequency	60Hz
Input polarity	Bipolar
Gate voltage ON / OFF	130 / 130VAC

Output (Load side) Data	
Rated Switching voltage	3~48VDC
Continuous current	500mA
Voltage drop at Max	≐1.5V
Leakage current	≐0A

General Data	
Connection type	NPN/PNP (Sink/Source)
Connection method	Screw connection
Solid Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Stranded Wire (AWG) / (mm²)	24~14 / 0.2~2.5
Operation temperature	-25°C~ 60°C
Storage temperature	-40°C~ 70°C
Impulse withstand voltage	2.5KVAC / min
Wire strip length (mm)	7~8
Insulating material	PA
Torque (N·m / lb·in)	0.4 / 3.47
TxW (mm)	6.1 x 67.85
H(TS-35N TS-35/15N) (mm)	61.5 / 69.0
Package	10pcs

Accessories Part No.	
DMERC-BK	
CSC-402PN CSC-403PN CSC-404PN CSC-405PN CSC-410PN	
TM43W	
TS-35N TS-35/15N	
0.5 x 3.0 mm	



Crimping Pliers

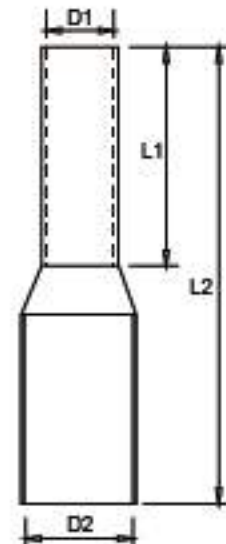
- Self-adjustable to suit the wire size.
- Square crimp, four sets of jagged surface for crimping.
- Cross section: 0.08~10mm² / AWG 28~7.
- Specially mechanically designed for maximum crimping force.
- Save up to 40% manpower.

**Durability**
The spring was made by hardened steel. Durable & flexible

**Cost saving**
Mechanical design helps labor saving & cost saving.

**Rounded shape**
The crimped wire with ferrule is in a rounded shape for easy connection.

Ferrules



Diameter AWG (mm²)	Part number	Package	Size(mm)				DIN 46228/4 color
		Pos / bag	D1	D2	L1	L2	
20 (0.5)	DN00508D	500	1.0	2.8	8	14	○ White
18 (0.75)	DN00708D	500	1.2	2.8	8	14	● Grey
(1)	DN01008D	500	1.4	3.0	8	14	● Red
16 (1.5)	DN01508D	500	1.7	3.5	8	14	● Black

Marking label:

- Clear indication.
- Thermal printing for instant operation.

