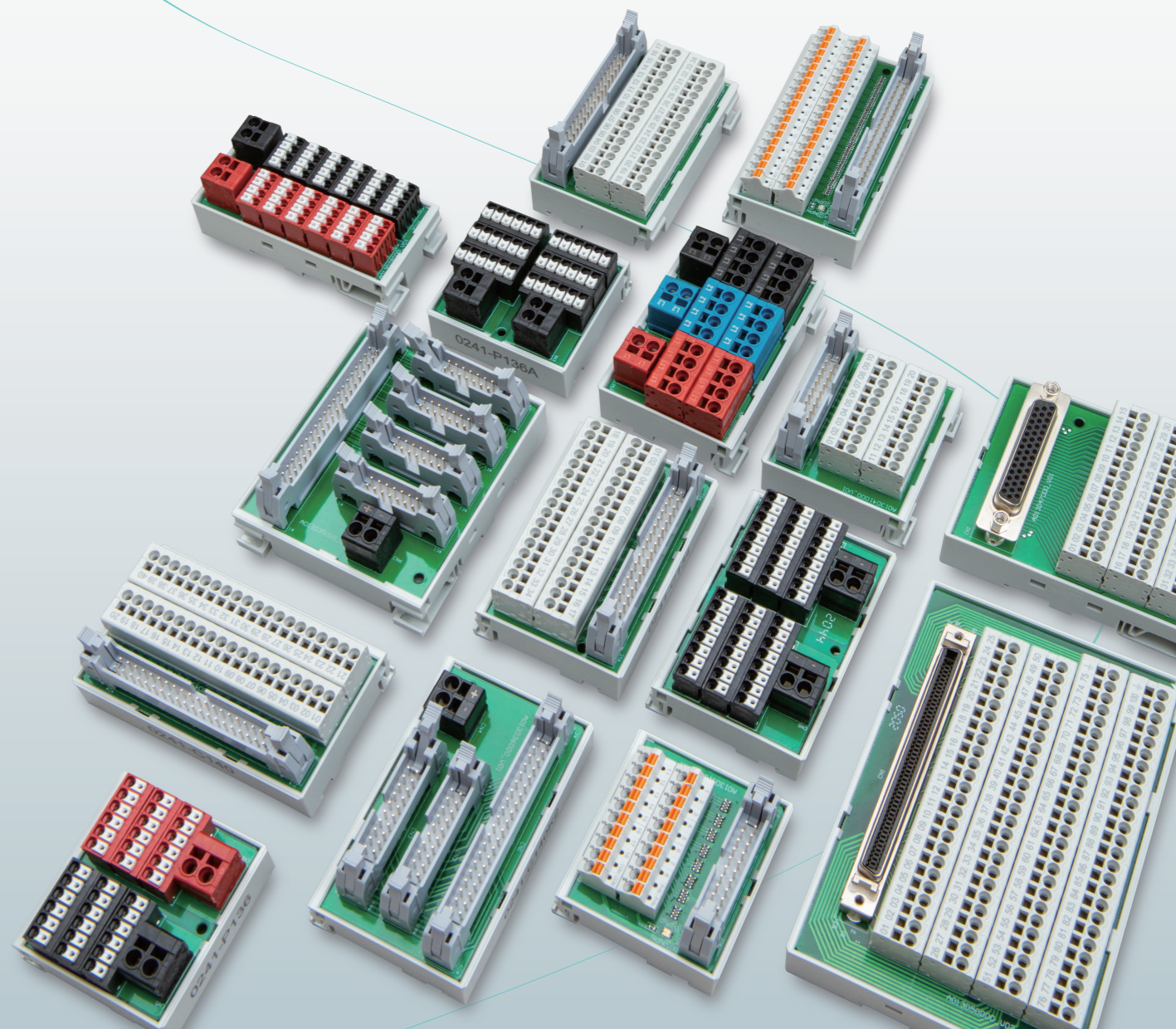




Delight Through Connections

# Interface Modules



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Dinkle remains the right of product modification and engineering change of design.  
The catalogue is for reference only. The final product is made according to actual  
engineering drawing.

APR./2021



DINKLE INTERNATIONAL CO., LTD.

DC-29.2





## Delight Through Connections

Dinkle Group was established in 1983, and since that time has insisted on constant innovation and preserving an excellent craftsman's spirit. Starting with a core business of terminal block manufacturing, Dinkle has expanded to provide many outstanding products, deliver highly efficient global service, and promote close connections with end users.

Dinkle has accumulated extensive experience through close cooperation with global customers and application of advanced technologies in the market. Attentively listening to customers, correctly understanding their needs and accurately providing solutions are the key to Dinkle's success and creates end users' satisfaction. Customer support and trust increases our continuous passion and motivation to continue innovating.

Dinkle appreciates our role as an ideal win-win partner for your diverse needs; let us **Delight Through Connections!!**



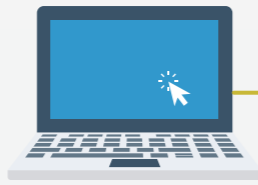
## Product features

- 30% reduction in inventory space due to high-density terminal blocks with standard integrated one-piece housings
- 70% savings in wiring time with push-in design terminal blocks, where wires are inserted and withdrawn from the top
- Many options for communication modules, signal modules, power distribution modules, relay modules, standard power supply, accessories, and tools to meet all kinds of industrial control requirements
- Standardized modules support most brands of PLCs and controllers
- Safety ensured by terminal blocks and materials which are UL1059 recognized and IEC60947 approved



# Digital Transformation Solution

ERP



Ethernet



MoM



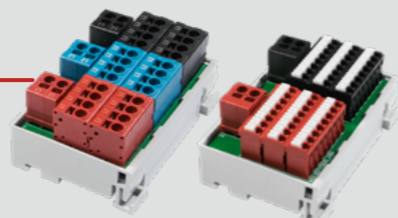
IPC

Control Level

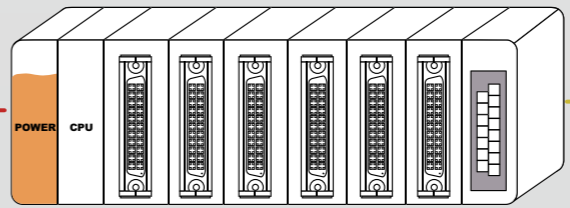
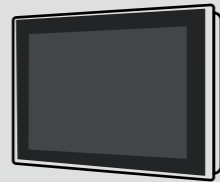


Power Supply P35-P36

Power



Distribution Modules P9-P13



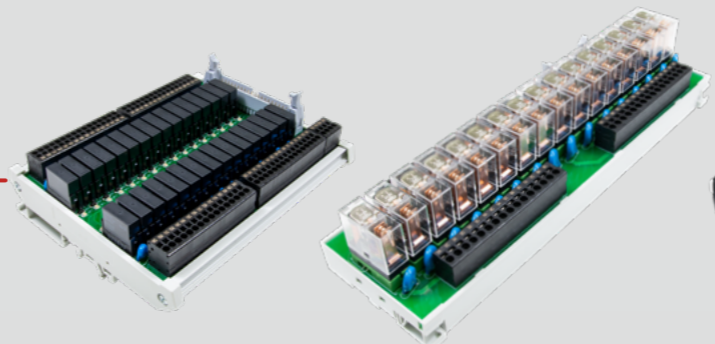
Communication by Modbus / EtherNet/IP / EtherCAT / PROFINET / CC-LINK or IO modules



Communication Modules P7-P8



Signal Interface Modules P14-P21



Relay Modules P22-P25

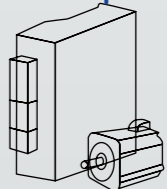
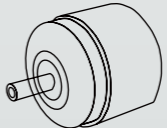
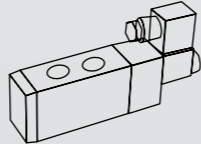
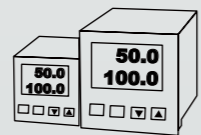
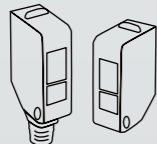


Slim Relay Modules P29-P34



**iO-GRID**  
(Remote IO)

Device Level





# Category

## Communication Module Overview

Connection method	Connector	Communication	Part number	Page
PID	RJ45	-	0170-0201	P8
PID	RJ45	-	0170-0202	P8
PID	RJ45	-	0170-0203	P8
-	USB	RS232	GFTL-RM01	P8
PID	USB	RS485	GFTL-RM02	P8
-	USB	USB	GFTL-G001	P8

## Distribution Module Overview

Connection method	Distribution type	Number of connections	Part number	Page
PID	1 input to 8 outputs	8+8	0241-P116	P10
PID	1 input to 8 outputs	8+8	0241-P116A	P10
PID	1 input to 12 outputs	12+12	0241-P124	P10
PID	1 input to 12 outputs	12+12	0241-P124A	P10
PID	1 input to 18 outputs	18+18	0241-P136	P11
PID	1 input to 18 outputs	18+18	0241-P136A	P11
PID	1 input to 24 outputs	24+24	0241-P148	P11
PID	1 input to 24 outputs	24+24	0241-P148A	P11
PID	1 input to 24 outputs	24+24	0241-P248	P12
PID	1 input to 24 outputs	24+24	0241-P248A	P12
PID	1 input to 8 outputs	8+8	0241-P316	P12
PID	1 input to 8 outputs	8+8+8	0241-P424	P13

## Interface Module Overview

Connection method	Connector	Indicator	Part number	Page
PID	Input : IDC 40-Pin, Output: IDC 14-Pin 4 Set	NO	0241-C140K1	P15
PID	Input : IDC 40-Pin, Output: IDC 20-Pin 2 Set	NO	0241-C140K2	P15
PID	IDC 14-Pin, Mini Clamp Connector Socket	NO	0241-C114K	P16
PID	IDC 20-Pin, Mini Clamp Connector Socket	NO	0241-C120K	P16
PID	IDC 14-Pin	NO	0241-C114	P17
PID	IDC 20-Pin	NO	0241-C120	P17
PID	IDC 26-Pin	NO	0241-C126	P17
PID	IDC 30-Pin	NO	0241-C130	P17
PID	IDC 34-Pin	NO	0241-C134	P17
PID	IDC 40-Pin	NO	0241-C140	P17
Screw	IDC 20-Pin	NO	0241-C120S	P17
Screw	IDC 34-Pin	NO	0241-C134S	P17
Screw	IDC 40-Pin	NO	0241-C140S	P17
PID	D-Sub(Female) 37-Pin	NO	0241-C237	P18
PID	D-Sub(Female) 44-Pin	NO	0241-C244	P18
PID	MDR 50-Pin	NO	0241-C350	P18
PID	MDR 68-Pin	NO	0241-C368	P18
PID	MDR 100-Pin	NO	0241-C300	P18
PID	IDC 20-Pin	Yes	0241-C120LED	P19
PID	IDC 34-Pin	Yes	0241-C134LED	P19
PID	IDC 40-Pin	Yes	0241-C140LED	P20
PID	Plug 20-Pin	Yes	0241-C420LEDA	P20
PID	Plug 34-Pin	Yes	0241-C434LEDA	P21
PID	Plug 40-Pin	Yes	0241-C440LEDA	P21

## Relay Module Overview

Connection method	Input (24VDC)		Output			Part number	Page
	Input type	Connector	Number of relays	Rated current	Contact form		
PID	NPN / PNP	IDC 14-Pin	8	5 A	1A	0240-A108	P23
PID	NPN / PNP	IDC 20-Pin	16	5 A	1A	0240-A116	P23
PID	NPN / PNP	IDC 40-Pin	32	5 A	1A	0240-A132	P23
PID	NPN / PNP		2	10 A	1A	0240-A202	P24
PID	NPN / PNP		4	10 A	1A	0240-A204	P24
PID	NPN / PNP		6	10 A	1A	0240-A206	P24
PID	NPN / PNP	IDC 14-Pin	8	10 A	1A	0240-A208	P24
PID	NPN / PNP	IDC 14-Pin	12	10 A	1A	0240-A212	P24
PID	NPN / PNP	IDC 20-Pin	16	10 A	1A	0240-A216	P24
PID	NPN / PNP		2	10 A	1C	0240-C202	P24
PID	NPN / PNP		4	10 A	1C	0240-C204	P24



## Relay Module Overview

Connection method	Input (24VDC)		Output			Part number	Page
	Input type	Connector	Number of relays	Rated current	Contact form		
PID	NPN / PNP		6	10 A	1C	0240-C206	P24
PID	NPN / PNP	IDC 14-Pin	8	10 A	1C	0240-C208	P24
PID	NPN / PNP	IDC 14-Pin	12	10 A	1C	0240-C212	P24
PID	NPN / PNP	IDC 20-Pin	16	10 A	1C	0240-C216	P24
Screw	NPN / PNP		2	10 A	1C	0240-C202S	P25
Screw	NPN / PNP		4	10 A	1C	0240-C204S	P25
Screw	NPN / PNP		6	10 A	1C	0240-C206S	P25
Screw	NPN / PNP	IDC 14-Pin	8	10 A	1C	0240-C208S	P25
Screw	NPN / PNP	IDC 14-Pin	12	10 A	1C	0240-C212S	P25
Screw	NPN / PNP	IDC 20-Pin	16	10 A	1C	0240-C216S	P25
PID	NPN / PNP		8	1 A	2C	0240-C308	P25
PID	NPN / PNP		8	1 A	2C	0240-C308A	P25

## Slim Relay Module Overview

Connection method	Input			Output			Part number	Page
	Input type	Rated voltage	Rated current	Rated voltage	Rated current	Contact form		
<b>Opto Relay</b>								
PID	NPN / PNP	5 VDC	15~20 mA	3~48 VDC	6 A	1A	RE-2604	P30
PID	NPN / PNP	24 VDC	15~20 mA	3~48 VDC	6 A	1A	RE-2614	P30
PID	NPN / PNP	90~240 VAC	65~80 mA	3~48 VDC	6 A	1A	RE-2674	P30
PID	PNP	5 VDC	10 mA	4~30 VDC	0.1A	1A	RE-3704	P31
PID	PNP	24 VDC	10 mA	4~30 VDC	0.1A	1A	RE-3714	P31
Screw	NPN	5~30 VDC	6 mA	3~48 VDC	0.1 A	1A	RE-0014	P31
Screw	NPN / PNP	5 VDC	15~18 mA	3~48 VDC	0.5 A	1A	RE-0504	P32
Screw	NPN / PNP	24 VDC	12~14 mA	3~48 VDC	0.5 A	1A	RE-0514	P32
Screw	NPN / PNP	95~125 VAC	0.6~1.3 mA	3~48 VDC	0.5 A	1A	RE-0554	P32
Screw	NPN / PNP	200~240 VAC	0.6~1.1 mA	3~48 VDC	0.5 A	1A	RE-0564	P32
<b>Slim Relay</b>								
Spring Clamp	NPN / PNP	24 VAC / VDC	11.1 mA	400 VAC 125 VDC	6 A	1C	RER-24-4A	P33
Spring Clamp	NPN / PNP	110 VAC / VDC	3.4 mA	400 VAC 125 VDC	6 A	1C	RER-110-5B	P33
Spring Clamp	NPN / PNP	230 VAC / VDC	3.7 mA	400 VAC 125 VDC	6 A	1C	RER-230-6B	P33
Screw	NPN / PNP	24 VAC / VDC	11.1 mA	400 VAC 125 VDC	6 A	1C	RER-24-1A	P34
Screw	NPN / PNP	110 VAC / VDC	3.4 mA	400 VAC 125 VDC	6 A	1C	RER-110-2B	P34
Screw	NPN / PNP	230 VAC / VDC	3.7 mA	400 VAC 125 VDC	6 A	1C	RER-230-3B	P34

# Controller Compatibility Table

## PLC & Module Compatibility Table

PLC Module	FATEK			Siemens										Allen-Bradley										
	FBs-24YT/J	FBs-24EYT	FBs-32DGI	FBs-24X	FBs-24EX	6ES7322-1BH00-0AA0	6ES7322-1BH01-0AA0	6ES7322-1BH10-0AA0	6ES7322-1FH00-0AA0	6ES7321-1FL00-0AA0	6ES7321-1BH02-0AA0	6ES7321-1BH10-0AA0	6ES7321-1BH50-0AA0	6ES7321-1CH20-0AA0	6ES7321-1FH00-0AA0	6ES7321-7BH01-0AB0	6ES7323-1BL00-0AA0	6ES7323-1EL00-0AA0	1746-1BL00-0AA0	1746-OB32	1746-OV32	1746-IB32	1746-IV32	
0241-C120 (P17)																								
0241-C130 (P17)																								
0241-C134 (P17)																								
0241-C140 (P17)																								
0241-C120S (P17)																								
0241-C134S (P17)																								
0241-C140S (P17)																								
0241-C120LED (P19)																								
0241-C134LED (P19)																								
0241-C140LED (P20)																								
0241-C237 (P18)																								
0240-A132 (P23)																								
0240-A116 (P23)																								
0240-A216 (P24)																								
0240-C216 (P24)																								
0240-C216S (P25)																								



## PLC & Module Compatibility Table

		KEYENCE																					
PLC	Module	KV-NC16EX	KV-NC32EX	KV-NC32XC	KV-NC32EXT	KV-NC16EXT	KV-C32XTD	KV-SIR32XT	KV-NC16ET	KV-NC16ETP	KV-C32TC	KV-C32TD	KV-C64TC	KV-NC64TD	KV-NC32ET	KV-C32TCP	KV-C64TCP	KV-NC32ETP	KV-700	KV-NC32T	KV-3000	KV-5000	
0241-C120 (P17)		•								•	•									•			
0241-C134 (P17)			•	•	•	•	•	•				•	•	•	•	•	•	•	•			•	
0241-C140 (P17)																						•	•
0241-C120S (P17)		•								•	•										•		
0241-C134S (P17)			•	•	•	•	•	•				•	•	•	•	•	•	•	•			•	
0241-C140S (P17)																						•	•
0241-C120LED (P19)		•								•	•										•		
0241-C134LED (P19)			•	•	•	•	•	•				•	•	•	•	•	•	•	•			•	
0241-C140LED (P20)																						•	•
0241-C237 (P18)																							
0240-A132 (P23)																							
0240-A116 (P23)										•	•												
0240-A216 (P24)										•	•												
0240-C216 (P24)										•	•												
0240-C216S (P25)										•	•												

## PLC & Module Compatibility Table

		Panasonic																					
PLC	Module	AFP7X32D2	AFP7X64D2	FP2-X32D2	FP2-X64D2	FP2-XY64D2T	FP2-XY64D2P	FP2-XY64D2P	FP2-XY64D2T	AFP7XY64D2P-A	FP2-Y series	FP2-PP series	AFP7Y series	AFP7EXPM	AFP7EXPS	FP2-PP series	FP2-HS series	FP2-PXY series	AFP7PG series	FP2-PP series			
0241-C120 (P17)																							
0241-C134 (P17)																							
0241-C140 (P17)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120S (P17)																							
0241-C134S (P17)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C140S (P17)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120LED (P19)																							
0241-C134LED (P19)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C140LED (P20)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C237 (P18)																							
0240-A132 (P23)																							
0240-A116 (P23)																							
0240-A216 (P24)																							
0240-C216 (P24)																							
0240-C216S (P25)																							

## PLC & Module Compatibility Table

		KEYENCE								OMRON														
PLC	Module	KV-5500	KV-H20S	KV-H40S	KV-H20G	KV-MC20V	KV-SSC02	KV-MC40V	KV-SH04PL	KV-ML16V	KV-SC20V	CJ1W-ID231	CJ1W-ID232	CJ1W-ID261	CJ1W-ID262	CJ1W-ID231	CJ1W-ID233	CJ1W-ID261	CJ1W-ID263	CJ1W-ID232	CJ1W-ID262	CJ1W-ID233	CJ1W-ID234	
0241-C120 (P17)											•													
0241-C134 (P17)												•												
0241-C140 (P17)		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120S (P17)											•													
0241-C134S (P17)												•												
0241-C140S (P17)		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120LED (P19)											•													
0241-C134LED (P19)												•												
0241-C140LED (P20)		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C237 (P18)																								
0240-A132 (P23)																		•	•	•	•	•	•	•
0240-A116 (P23)																								
0240-A216 (P24)																								
0240-C216 (P24)																								
0240-C216S (P25)																								

## PLC & Module Compatibility Table

		Mitsubishi								DELTA																		
PLC	Module	QX41	QX42	QX71	QX72	QX82	QX81	QY41P	QY71	QY82P	QH42P	QH81P	FX5UC series	AH32AM10N-5C	AS32AM10N-5C	AH64AM10N-A	AS64AM10N-5C	DVP32SM11N	AH32AN02P-5C	AH64AN02T-5C	AH32AN02T-A	AH64AN02T-A	AS32AN02T-5C	AS64AN02T-A	AS332T-A	AS324MT-A		
0241-C120 (P17)																												
0241-C134 (P17)																												
0241-C140 (P17)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120S (P17)																												
0241-C134S (P17)																												
0241-C140S (P17)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C120LED (P19)																												
0241-C134LED (P19)																												
0241-C140LED (P20)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0241-C237 (P18)																												
0240-A132 (P23)																												
0240-A116 (P23)																												
0240-A216 (P24)																												
0240-C216 (P24)																												
0240-C216S (P25)																												

# Communication Modules

## The essential connection product for industrial digitization: Communication Modules

- The communication module product line includes USB to RS232, USB to RS485, USB extender and signal demultiplexer devices. These can quickly connect and collect digital information from computer systems, sensors and field devices, thus enabling communication of data and related settings for temperature controllers, pressure gauges, inverters, barcode readers, RFID device and more. In addition, communication modules can facilitate the expansion of communication node connections, saving wiring time and space in the process.
- Dinkle communication modules are equipped with the latest push-in design (PID) terminal blocks to save wiring time and improve wiring reliability.

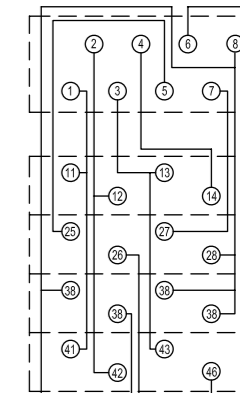
### Communication Modules

GFTL-RM01



iD-GRID™ Setter  
USB / RS232

0170-0201

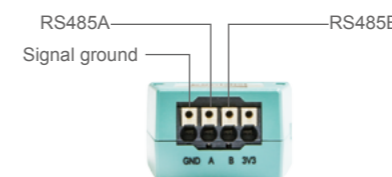


GFTL-RM02

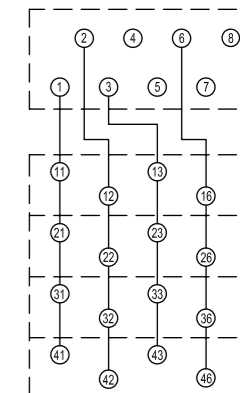
RS485 Communication Interface  
USB / RS485



Wire range (IEC/UL)	0.14 ~ 1.5 mm <sup>2</sup> / AWG 28 ~ 16
Applicable ferrules	DN00510D DN00710D



0170-0202

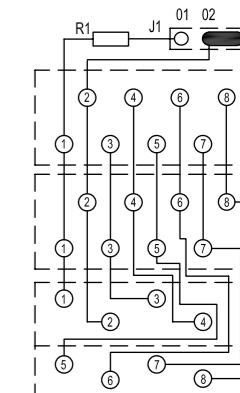


GFTL-G001



Transfer	USB2.0
Connector	Type A
Compatibility	Type A hub
Storage	0~70 °C
Dimensions LxWxH (mm)	66.5 x 27.5 x 16.5
Capacity	32 GB

0170-0203



#### Specification

Numbers of connections	16 Pole
Connection method	PID
Rated voltage	24 VDC
Rated current	1 A
Wire range	26~16 AWG
Input type	-
Connector	RJ45
Indicator	NO
Dimensions L x W x H (mm)	22.5 x 77.5 x 41.6



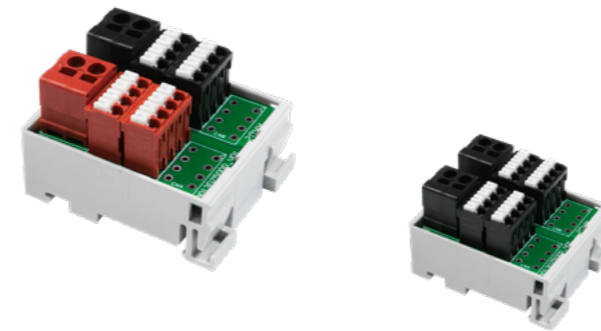
# Distribution Modules

## Effective power circuit management and configuration: Distribution Modules

- Dinkle power distribution modules can organize and identify power circuits using terminal block colors. The product intuitively reduces human wiring errors and effectively improves the safety and elegant appearance of the power system.
- Dinkle power distribution modules equipped with the latest push-in design (PID) terminal blocks can efficiently save space, installation time and cost. A high tensile strength stainless steel clip within the terminal blocks holds the wire securely and resists equipment vibration, ensuring long-term stable connections and reducing maintenance costs.

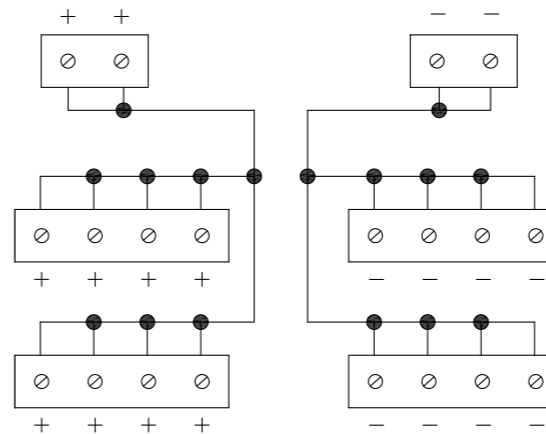
## Distribution Modules

0241-P116



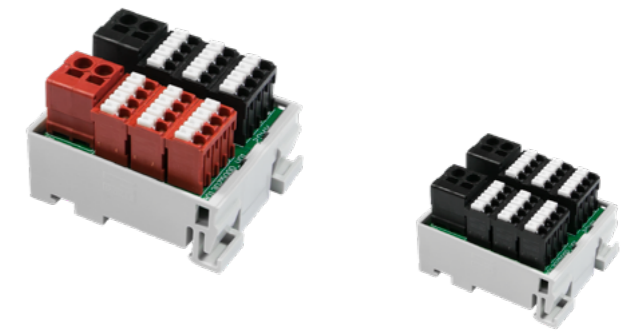
0241-P116A

Connection Diagram



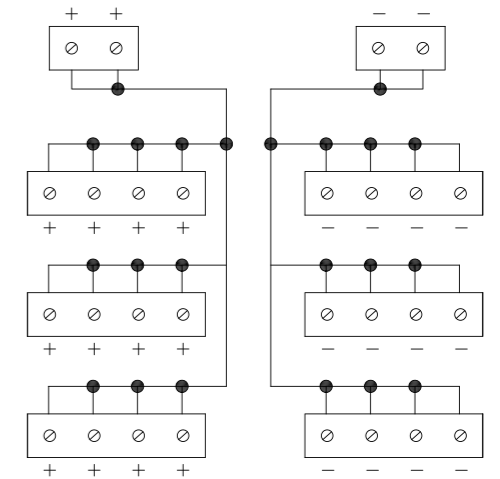
Specification	
Distribution type	1 input to 8 outputs
Number of connections	8+8
Dimensions L x W x H (mm)	38.2 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20 A
Total input current	40 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	50 VDC
Max. current of single pole	12A (Total output below 40A)
Wire range	26~16 AWG
Stripping length	8~9 mm
Applicable ferrules	DN00508D DN00708D

0241-P124



0241-P124A

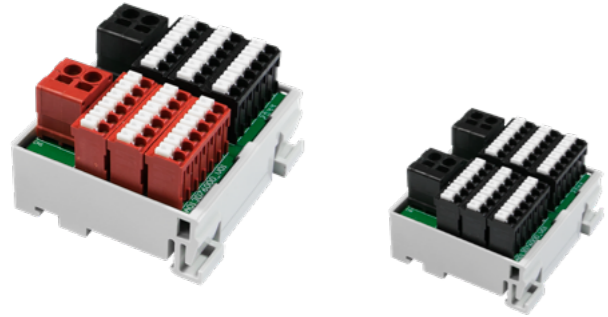
Connection Diagram



Specification	
Distribution type	1 input to 12 outputs
Number of connections	12+12
Dimensions L x W x H (mm)	38.2 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20 A
Total input current	40 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	50 VDC
Max. current of single pole	12A (Total output below 40A)
Wire range	26~16 AWG
Stripping length	8~9 mm
Applicable ferrules	DN00508D DN00708D

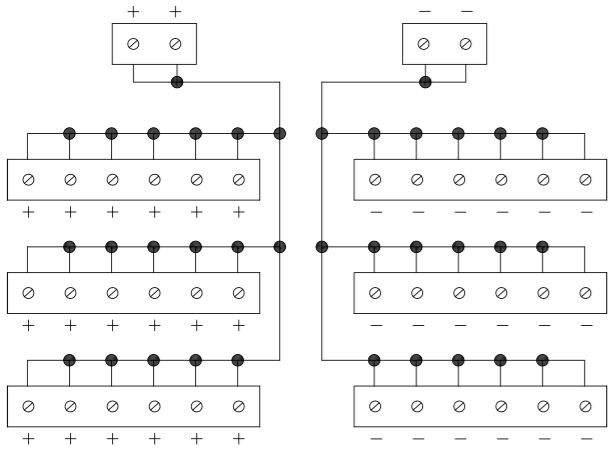
## Distribution Modules

0241-P136



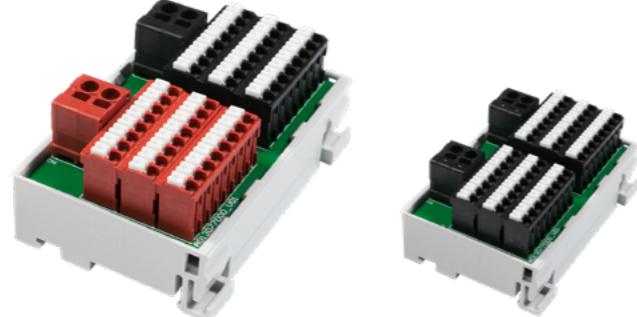
0241-P136A

Connection Diagram



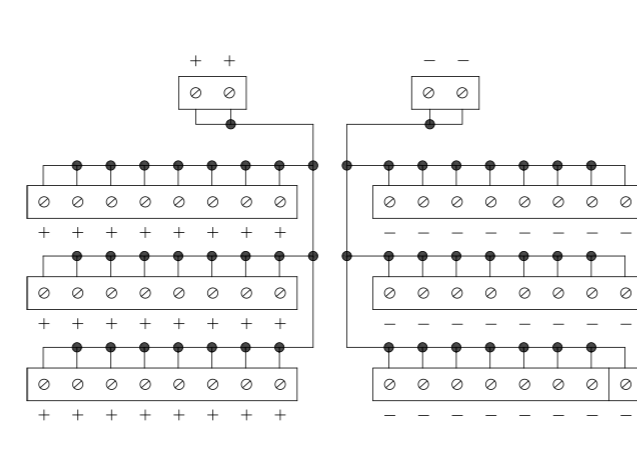
Specification	
Distribution type	1 input to 18 outputs
Number of connections	18+18
Dimensions L x W x H (mm)	49.8 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20 A
Total input current	40 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	50 VDC
Max. current of single pole	12A (Total output below 40A)
Wire range	26~16 AWG
Stripping length	8~9 mm
Applicable ferrules	DN00508D DN00708D

0241-P148



0241-P148A

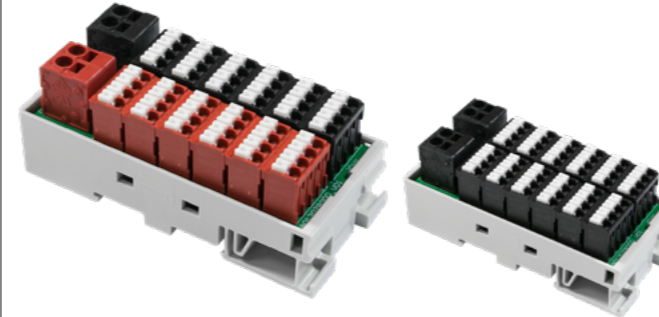
Connection Diagram



Specification	
Distribution type	1 input to 24 outputs
Number of connections	24+24
Dimensions L x W x H (mm)	68 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20 A
Total input current	40 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	50 VDC
Max. current of single pole	12A (Total output below 40A)
Wire range	26~16 AWG
Stripping length	8~9 mm
Applicable ferrules	DN00508D DN00708D

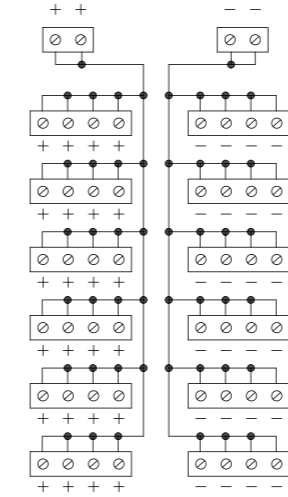
## Distribution Modules

0241-P248



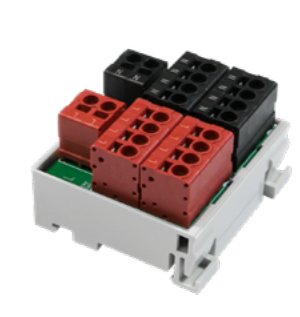
0241-P248A

Connection Diagram

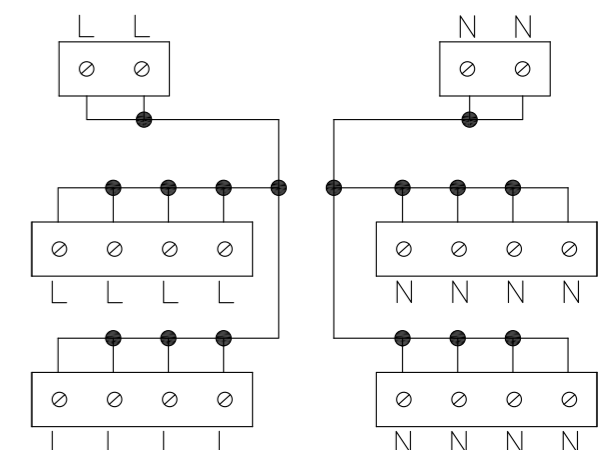


Specification	
Distribution type	1 input to 24 outputs
Number of connections	24+24
Dimensions L x W x H (mm)	35.2 x 77.9 x 30.3
Connection method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20 A
Total input current	40 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	50 VDC
Max. current of single pole	12A (Total output below 40A)
Wire range	26~16 AWG
Stripping length	8~9 mm
Applicable ferrules	DN00508D DN00708D

0241-P316



Connection Diagram

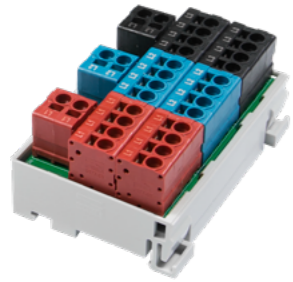


Specification	
Distribution type	1 input to 8 outputs
Number of connections	8+8
Dimensions L x W x H (mm)	49.8 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	300 VAC
Max. current of single pole	20 A
Total input current	20 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	300 VAC
Max. current of single pole	20A (Total output below 20A)
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D

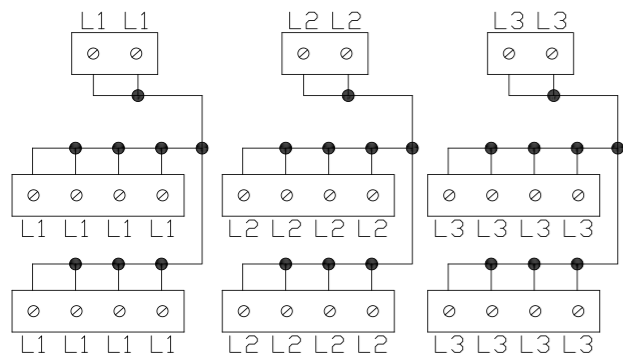


## Distribution Modules

0241-P424



Connection Diagram



Specification	
Distribution type	1 input to 8 outputs
Number of connections	8+8+8
Dimensions L x W x H (mm)	68 x 47.9 x 30.3
Connection method	PID
Input	
Input voltage	300 VAC
Max. current of single pole	20 A
Total input current	20 A
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D
Output	
Output voltage	300 VAC
Max. current of single pole	20A (Total output below 20A)
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D DN01510D



Connection Diagram

Specification	
Input	
Output	

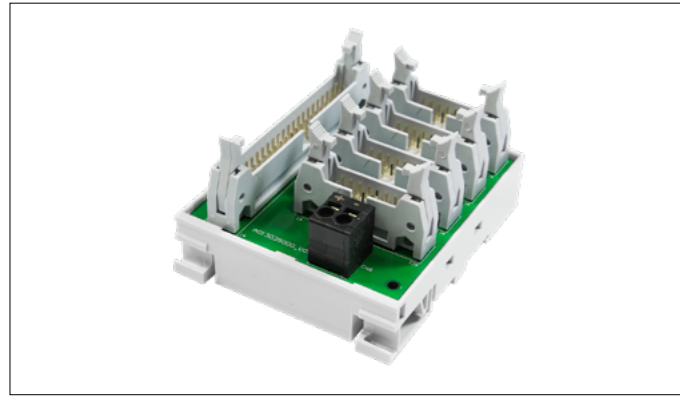
# Signal Interface Modules

## Easy wiring, convenient expansion, and quick connections for I/O signals: Interface Modules

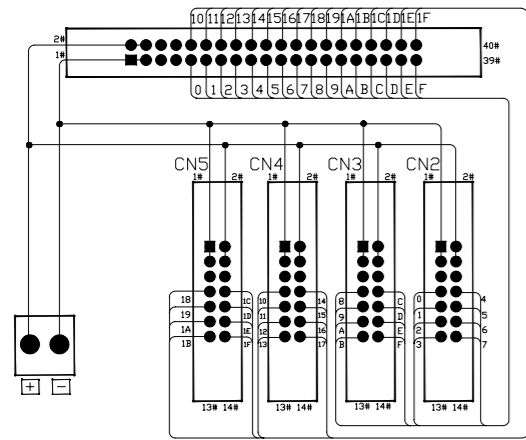
- Challenging the industry's smallest available dimensions, Dinkle's interface modules provide the highest I/O contact density, the most efficient configurations and the most complete specifications for signal transmission modules. Dinkle's professional module design incorporates significant improvements over other brands.
- Dinkle signal transfer modules equipped with the latest push-in design (PID) terminal blocks can effectively save space, time and cost. A high tensile strength stainless steel clip within the terminal blocks holds the wire securely and resists equipment vibration, even low frequency micro-vibrations, ensuring long-term connection stability and reducing maintenance costs. Color coordinated terminal blocks and PCB carriers provide an elegant appearance and enhance value.

## Signal Interface Modules

0241-C140K1



Connection Diagram

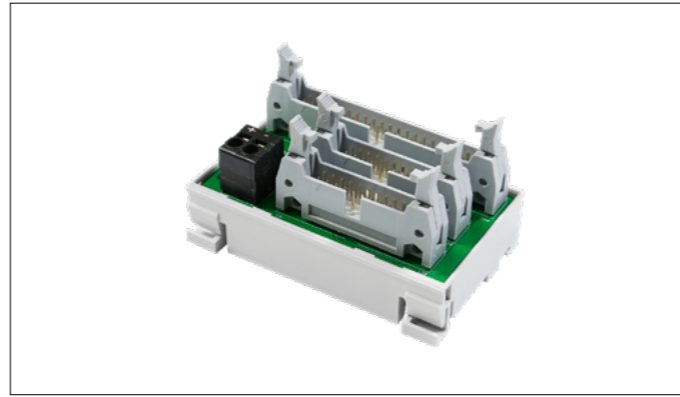


### Specification

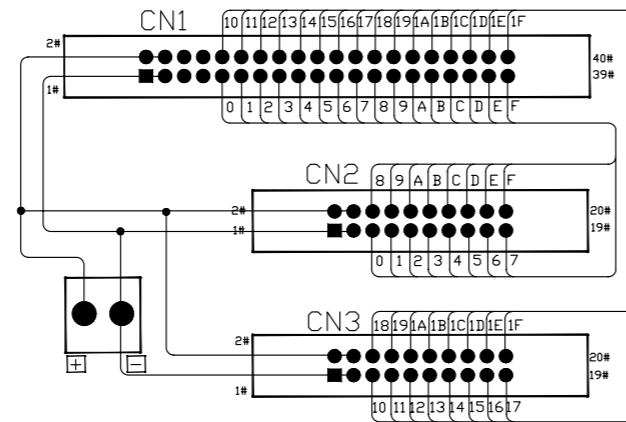
Number of connections	4 sets	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~12 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D DN01510D	
Input type	-	
Connector	IDC 40-Pin, IDC 14-Pin	
Indicator	NO	
Dimensions L x W x H (mm)	65.2 x 77.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

0241-C140K2



Connection Diagram



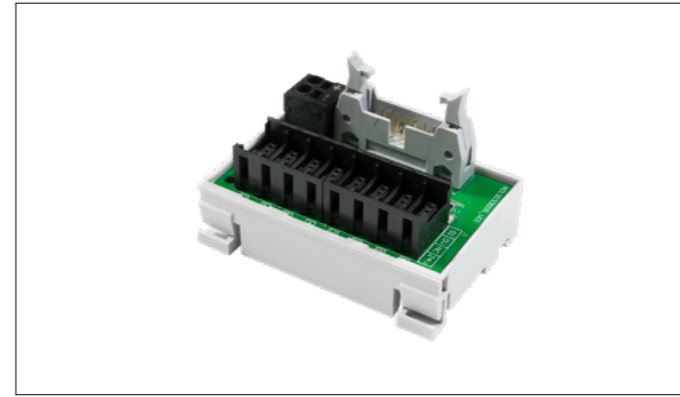
### Specification

Number of connections	2 sets	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~12 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D DN01510D	
Input type	-	
Connector	IDC 40-Pin, IDC 20-Pin	
Indicator	NO	
Dimensions L x W x H (mm)	76 x 47.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

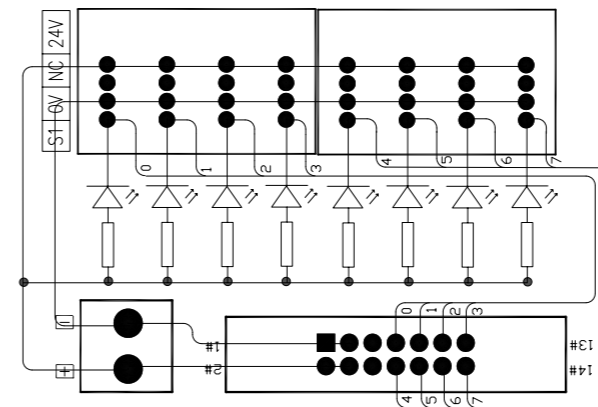
\* Wire harness reference P26-28

## Signal Interface Modules

0241-C114K



Connection Diagram

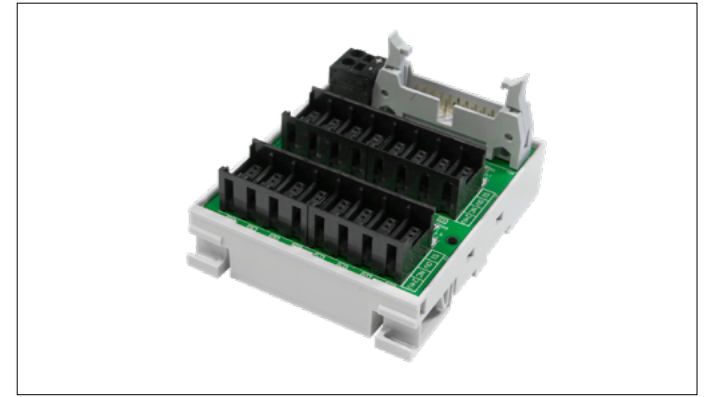


### Specification

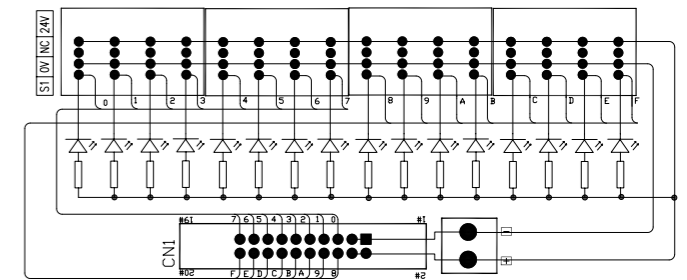
Number of connections	8 sets	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~12 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D DN01510D	
Input type	-	
Connector	IDC 14-Pin, Mini-Clamp	
Indicator	NO	
Dimensions L x W x H (mm)	68 x 47.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

0241-C120K



Connection Diagram



### Specification

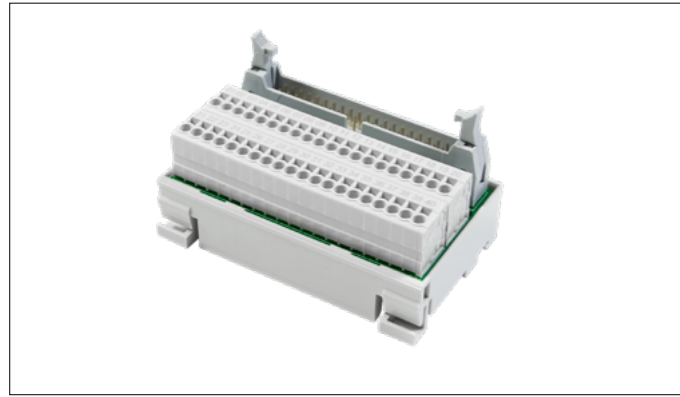
Number of connections	16 sets	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~12 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D DN01510D	
Input type	-	
Connector	IDC 20-Pin, Mini-Clamp	
Indicator	NO	
Dimensions L x W x H (mm)	65.2 x 77.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

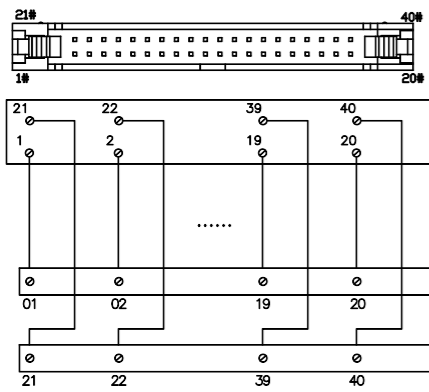


## Signal Interface Modules

0241-C1XX



Connection Diagram



Specification

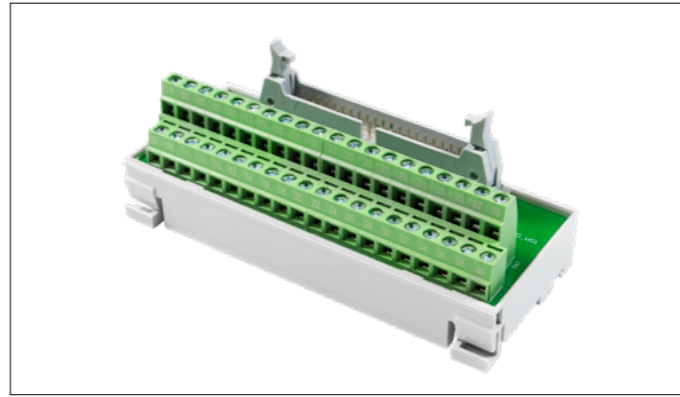
Part Number	Number of Connections	Dimensions L x W x H (mm)
0241-C114	14 poles	38.2 x 47.9 x 43
0241-C120	20 poles	49.8 x 47.9 x 43
0241-C126	26 poles	60.5 x 47.9 x 43
0241-C130	30 poles	68 x 47.9 x 43
0241-C134	34 poles	68 x 47.9 x 43
0241-C140	40 poles	76 x 47.9 x 43

Specification

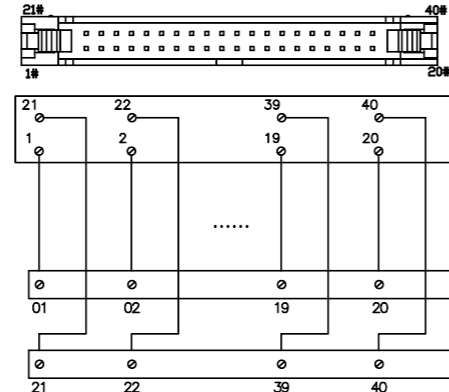
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	IDC	
Indicator	NO	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

0241-C1XXS



Connection Diagram



Specification

Part Number	Number of Connections	Dimensions L x W x H (mm)
0241-C120S	20 poles	60.5 x 47.9 x 43
0241-C134S	34 poles	111.1 x 47.9 x 43
0241-C140S	40 poles	111.1 x 47.9 x 43

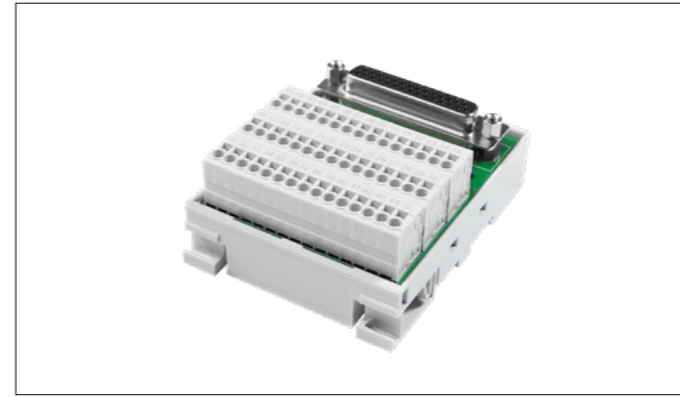
Specification

Connection method	Screw	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~18 AWG	
Stripping length	6~7 mm	
Screw	M2.5	
Rated torque (N-m)	0.5~0.6	
Input type	NPN / PNP	
Connector	IDC	
Indicator	NO	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

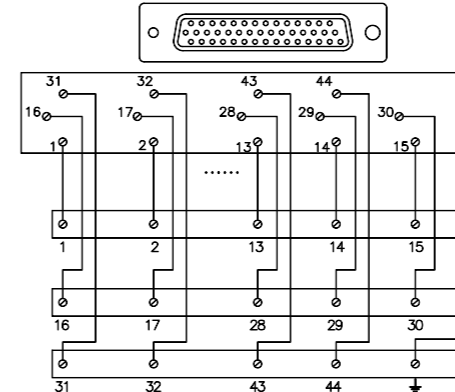
\* Wire harness reference P26-28

## Signal Interface Modules

0241-C2XX



Connection Diagram



Specification

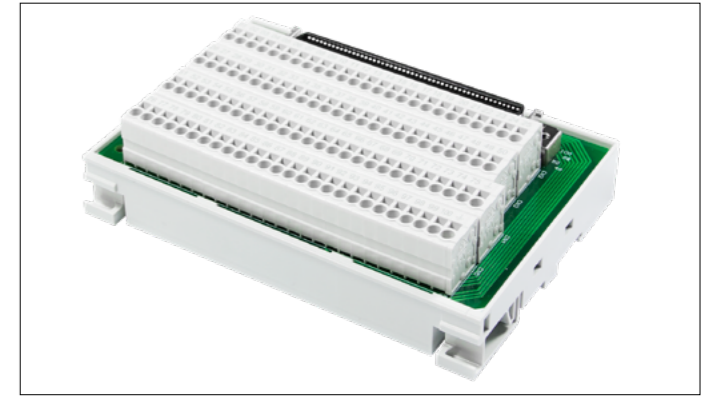
Part Number	Number of Connections	Dimensions L x W x H (mm)
0241-C237	37 poles	60.2 x 77.9 x 30.3
0241-C244	44 poles	60.2 x 77.9 x 30.3

Specification

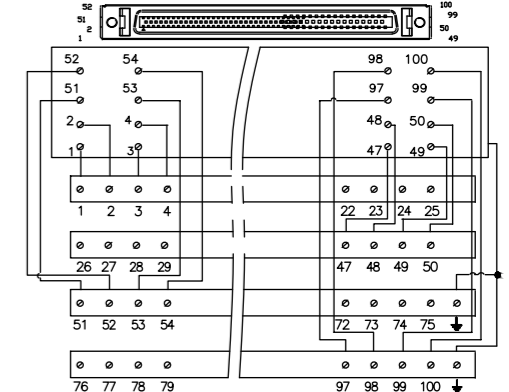
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	D-Sub	
Indicator	NO	
Wire harness	Shielded	WHS10 / WHS11
	Unshielded	WHN10 / WHN11

\* Wire harness reference P26-28

0241-C3XX



Connection Diagram



Specification

Part Number	Number of Connections	Dimensions L x W x H (mm)
0241-C350	50 poles	60.2 x 77.9 x 30.3
0241-C368	68 poles	94.2 x 77.9 x 30.3
0241-C300	100 poles	112.2 x 77.9 x 30.3

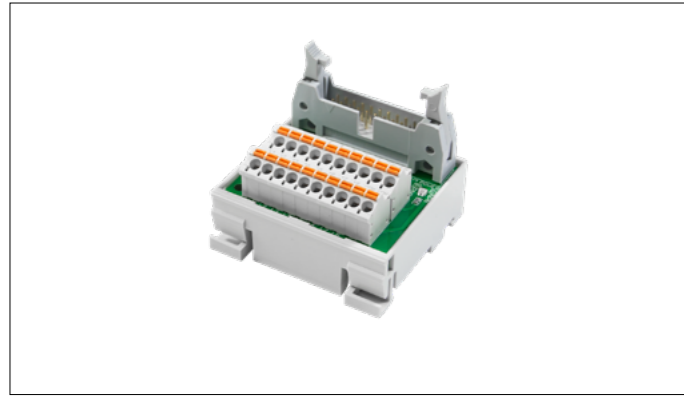
Specification

Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	9~10 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	MDR	
Indicator	NO	
Wire harness	Shielded	WHS55
	Unshielded	WHN55

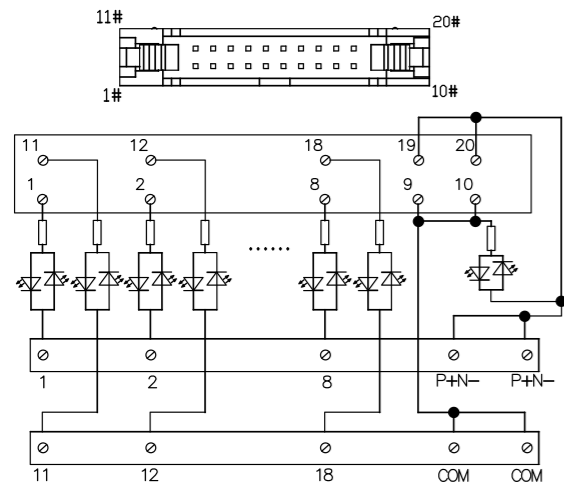
\* Wire harness reference P26-28

## Signal Interface Modules (with LED)

0241-C120LED



Connection Diagram

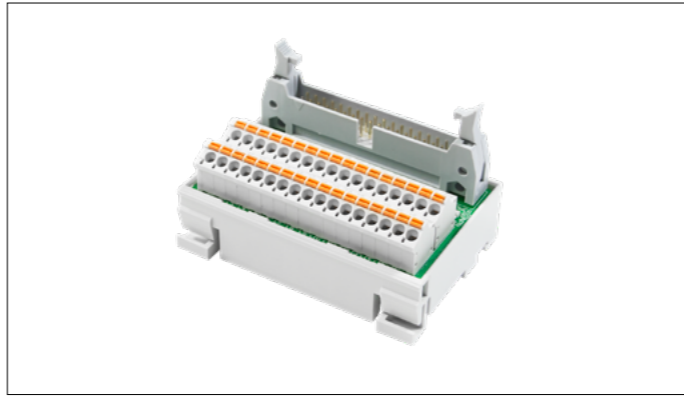


Specification

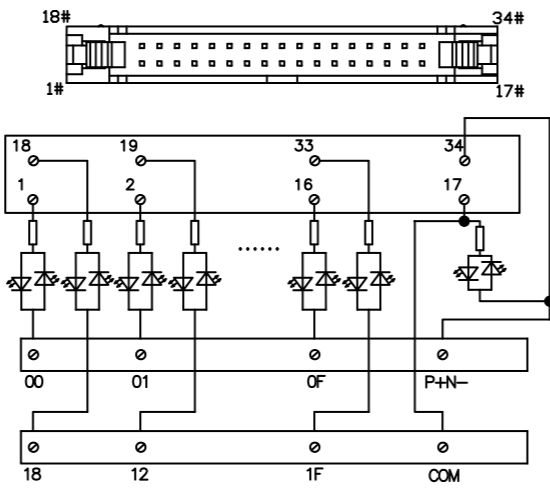
Number of connections	20 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	IDC	
Indicator	Yes	
Dimensions L x W x H (mm)	49.8 x 47.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

0241-C134LED



Connection Diagram



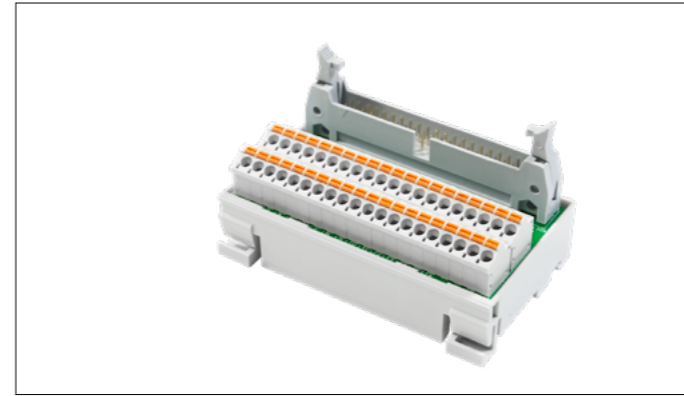
Specification

Number of connections	34 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	IDC	
Indicator	Yes	
Dimensions L x W x H (mm)	68 x 47.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

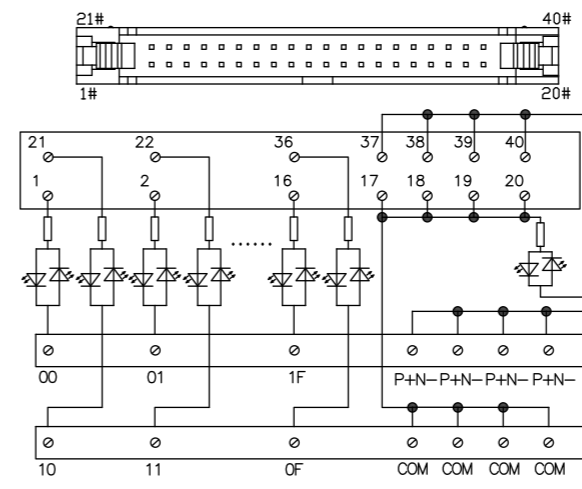
\* Wire harness reference P26-28

## Signal Interface Modules (with LED)

0241-C140LED



Connection Diagram

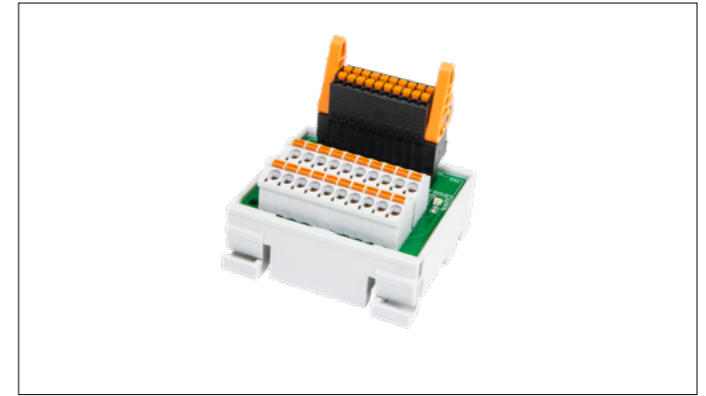


Specification

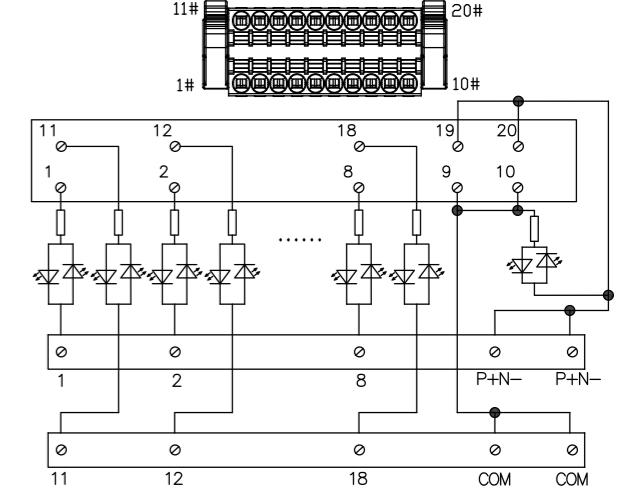
Number of connections	40 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	IDC	
Indicator	Yes	
Dimensions L x W x H (mm)	76 x 47.9 x 43	
Wire harness	Shielded	WHS33
	Unshielded	WHN33

\* Wire harness reference P26-28

0241-C420LEDA



Connection Diagram



Specification

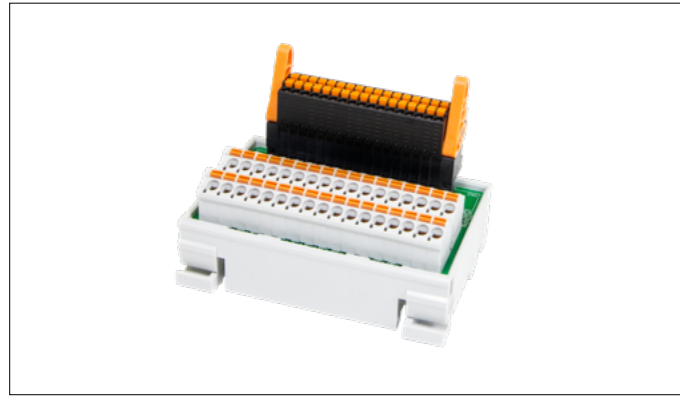
Number of connections	20 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	Terminal blocks	
Indicator	Yes	
Dimensions L x W x H (mm)	49.8 x 47.9 x 49.4	
Wire harness	Shielded	WHSX3 / WHSX7
	Unshielded	WHNX3 / WHNX7

\* Wire harness reference P26-28

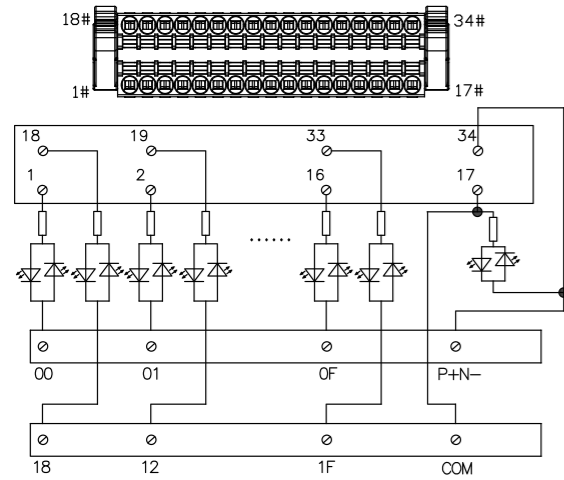


## Signal Interface Modules (with LED)

0241-C434LEDA



Connection Diagram

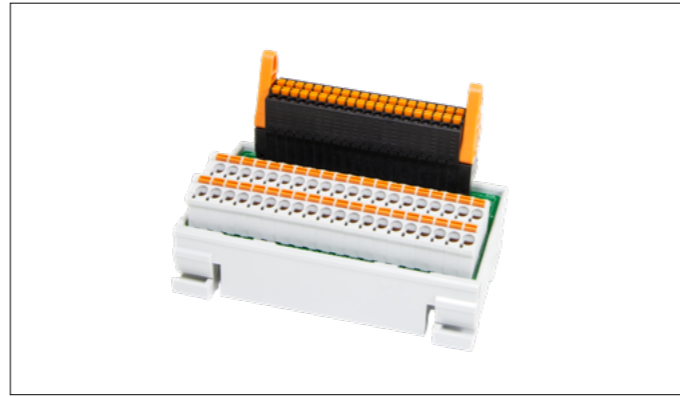


Specification

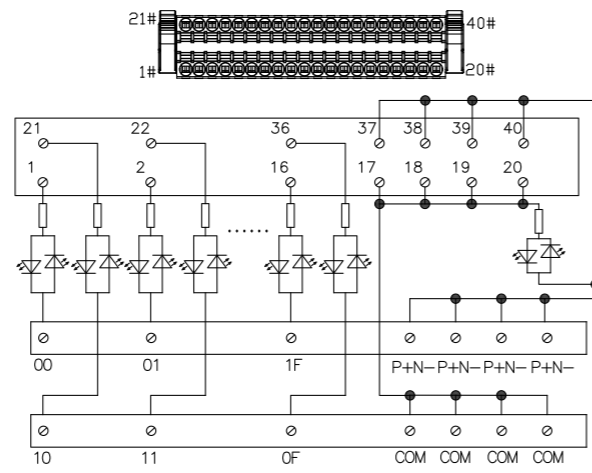
Number of connections	34 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	Terminal blocks	
Indicator	Yes	
Dimensions L x W x H (mm)	68 x 47.9 x 49.4	
Wire harness	Shielded	WHSX7 / WHSX3
	Unshielded	WHNX7 / WHNX3

\* Wire harness reference P26-28

0241-C440LEDA



Connection Diagram



Specification

Number of connections	40 Poles	
Connection method	PID	
Rated voltage	24 VDC	
Rated current	1 A	
Wire range	26~16 AWG	
Stripping length	8~9 mm	
Applicable ferrules	DN00510D DN00710D	
Input type	NPN / PNP	
Connector	Terminal blocks	
Indicator	Yes	
Dimensions L x W x H (mm)	76 x 47.9 x 49.4	
Wire harness	Shielded	WHSX7 / WHSX3
	Unshielded	WHNX7 / WHNX3

\* Wire harness reference P26-28

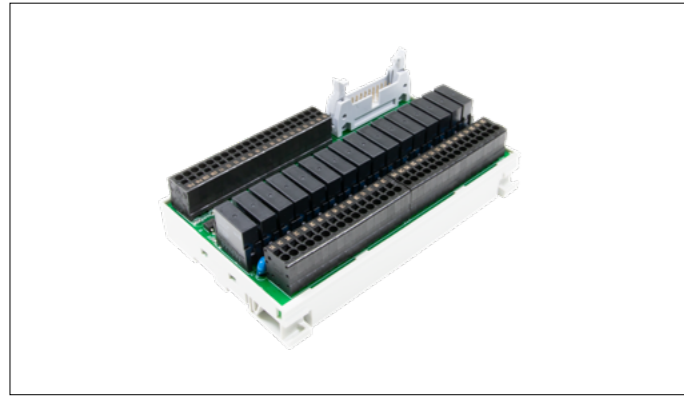
# Relay Modules

## Fundamental to industrial automation: Relay Modules

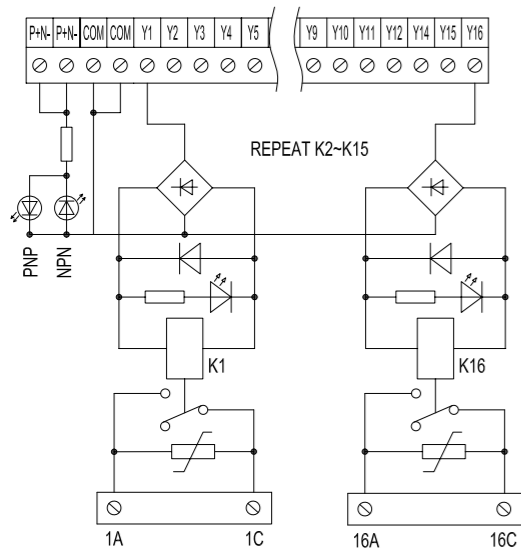
- Using high-quality industrial relays, Dinkle relay modules support a complete range of output current specifications from 1A to 10A, in a variety of commonly used output contacts and configurations such as 1A, 1C, and 2C. These modules effectively isolate signals, supporting both NPN and PNP input types, and the matching one piece PCB carrier improves product value with its neat and aesthetic exterior.
- Dinkle relay modules are mated with the latest push-in design (PID) terminal blocks, which can effectively save space, time and cost. A high tensile strength stainless steel clip within the terminal blocks holds the wire securely and resists equipment vibration, ensuring long-term stable connections and reducing maintenance costs.

## Relay Modules

0240-A108 / 0240-A116



Connection Diagram



Specification

Part number	Number of relays	Connector	Dimensions L x W x H (mm)
0240-A108	8	IDC 14-Pin	65.2 x 77.9 x 43
0240-A116	16	IDC 20-Pin	127.2 x 77.9 x 43

Specification

Relay model no.	OMRON/G6D-1A-ASI
Connection method	PID
Wire range	26~16 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D

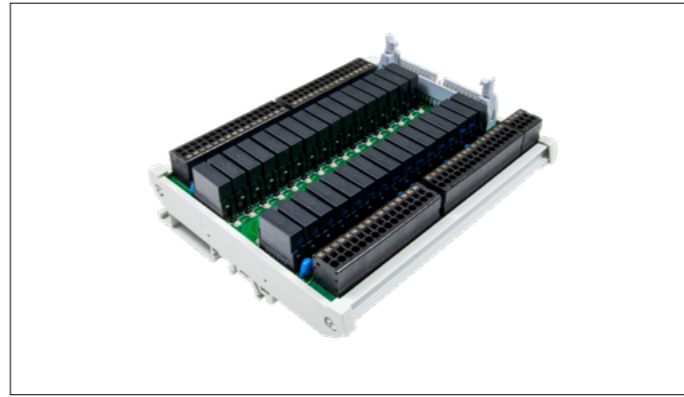
Input

Input voltage	24 VDC
Input current	8.3 mA

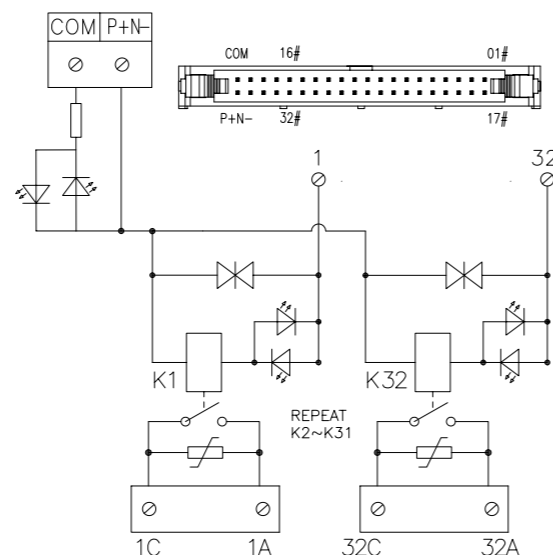
Output

Contact form	1A
Output voltage	250 VAC / 30 VDC
Output current	5 A

0240-A132



Connection Diagram



Specification

Relay model no.	OMRON/G6D-1A-ASI
Number of relays	32
Connection method	PID
Wire range	26~16 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D
Dimensions L x W x H (mm)	144 x 121.8 x 53.3

Input

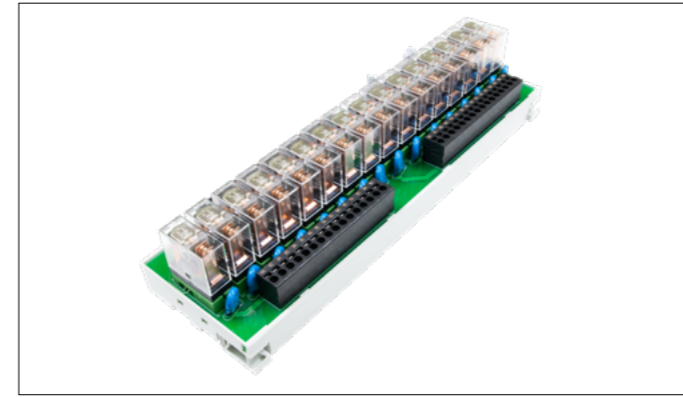
Input voltage	24 VDC
Input current	8.3 mA
Connector	IDC 40-pin

Output

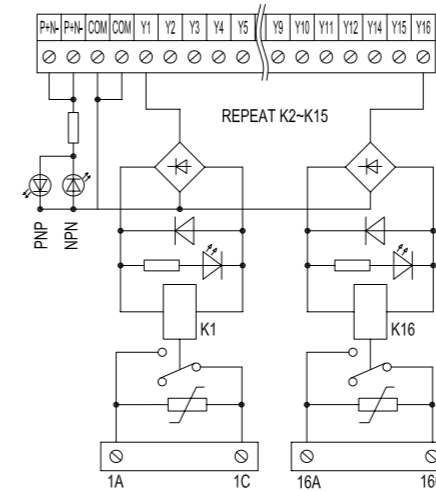
Contact form	1A
Output voltage	250 VAC / 30 VDC
Output current	5 A

## Relay Modules

0240-A2XX



Connection Diagram



Specification

Part number	Number of relays	Connector	Dimensions L x W x H (mm)
0240-A202	2	-	35.2 x 77.9 x 50.9
0240-A204	4	-	65.2 x 77.9 x 50.9
0240-A206	6	-	94.2 x 77.9 x 50.9
0240-A208	8	IDC 14-Pin	127.2 x 77.9 x 50.9
0240-A212	12	IDC 14-Pin	187.2 x 77.9 x 50.9
0240-A216	16	IDC 20-Pin	247.2 x 77.9 x 50.9

Specification

Relay model no.	OMRON/G2R-1-E
Connection method	PID
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D

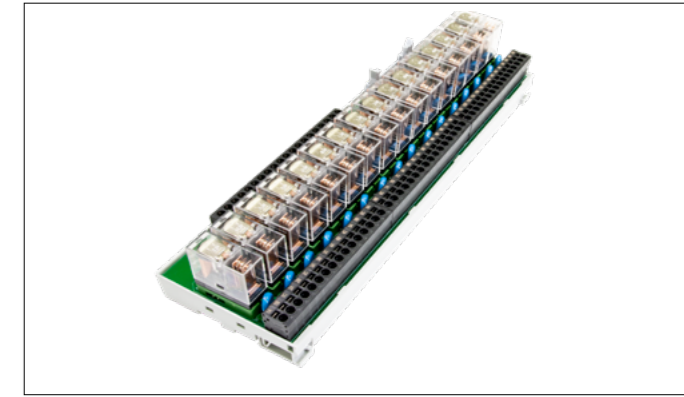
Input

Input voltage	24 VDC
Input current	21.8 mA

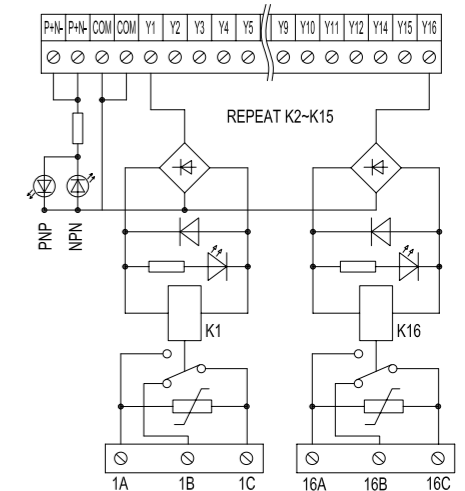
輸出 / Output

Contact form	1A
Output voltage	250 VAC / 30 VDC
Output current	10 A

0240-C2XX



Connection Diagram



Specification

Part number	Number of relays	Connector	Dimensions L x W x H (mm)
0240-C202	2	-	35.2 x 77.9 x 50.9
0240-C204	4	-	65.2 x 77.9 x 50.9
0240-C206	6	-	94.2 x 77.9 x 50.9
0240-C208	8	IDC 14-Pin	127.2 x 77.9 x 50.9
0240-C212	12	IDC 14-Pin	187.2 x 77.9 x 50.9
0240-C216	16	IDC 20-Pin	247.2 x 77.9 x 50.9

Specification

Relay model no.	OMRON/G2R-1-E
Connection method	PID
Wire range	26~12 AWG
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D

Input

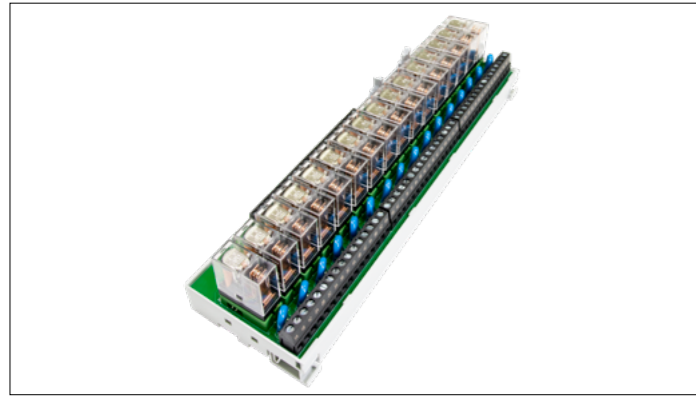
Input voltage	24 VDC
Input current	21.8 mA

Output

Contact form	1C
Output voltage	250 VAC / 30 VDC
Output current	10 A

## Relay Modules

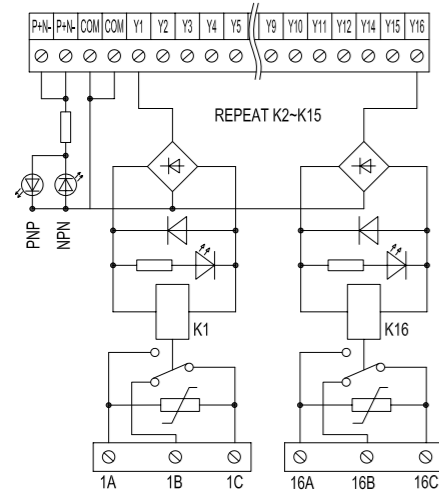
0240-C2XXS



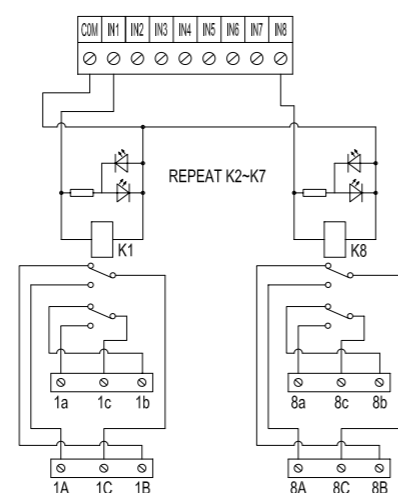
0240-C308 / 0240-C308A



Connection Diagram



Connection Diagram



Specification

Part number	Number of relays	Connector	Dimensions L x W x H (mm)
0240-C202S	2	-	35.2 x 77.9 x 50.9
0240-C204S	4	-	65.2 x 77.9 x 50.9
0240-C206S	6	-	94.2 x 77.9 x 50.9
0240-C208S	8	IDC 14-Pin	127.2 x 77.9 x 50.9
0240-C212S	12	IDC 14-Pin	187.2 x 77.9 x 50.9
0240-C216S	16	IDC 20-Pin	247.2 x 77.9 x 50.9

Specification

Relay model no.	OMRON/G2R-1-E
Connection method	Screw
Wire range	26~12 AWG
Stripping length	6~7 mm
Screw	M2.5
Rated torque (N-m)	0.5
Input	
Input voltage	24 VDC
Input current	21.8 mA
Output	
Contact form	1 C
Output voltage	250 VAC / 30 VDC
Output current	10 A

Specification

Part number	Number of relays	Wire range	Dimensions L x W x H (mm)
0240-C308	8	26 ~ 16 AWG	112.2 x 77.9 x 30.3
0240-C308A	8	26 ~ 12 AWG	158.2 x 77.9 x 30.3

Specification

Relay model no.	OMRON/G5V-2-H1
Connection method	PID
Stripping length	9~10 mm
Applicable ferrules	DN00510D DN00710D
Input	
Input voltage	24 VDC
Input current	8.33 mA
Output	
Contact form	2 C
Output voltage	125 VAC / 6 VDC
Output current	1 A


# Wire Harness For Interface Modules

- Dinkle provides standard prefabricated cables for integrating with multiple manufacturers' PLCs and controllers.
- In addition to providing standard cable lengths of 0.5 to 5.0M, Dinkle prefabricated cables can be customized for specific lengths. The connector-to-connector prefabricated cables provide a positive connection between the control device and the module. Connector mating to the cable with quick-plug terminals makes short-circuit wiring more convenient and flexible.



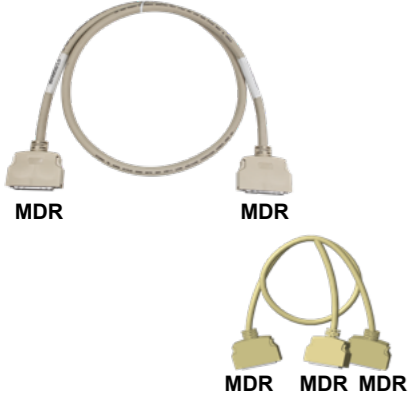


## Wire Harness Selection Steps

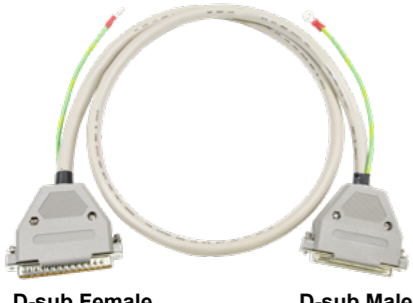
Step 1 : Select the appropriate connector type	Step 2 : Determine the cable type	Step 3 : Select the cable length
	1. Unshielded Cable 2. Shielded Cable  ※ For special wires and/or high quantity requirements, customized wires are available as specific demands.	5 different length cables for options (0.5m / 1m / 2m / 3m / 5m)

## Wire harness

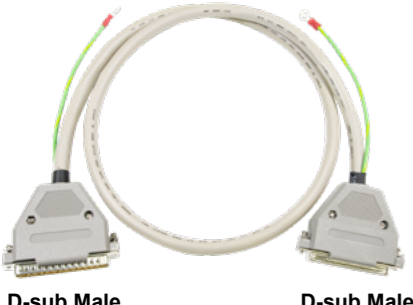
### MDR Cable

	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
MDR	50P	Unshielded	WHN55-5005	WHN55-5010	WHN55-5020	WHN55-5030	WHN55-5050
		Shielded	WHS55-5005	WHS55-5010	WHS55-5020	WHS55-5030	WHS55-5050
MDR	68P	Unshielded	WHN55-6805	WHN55-6810	WHN55-6820	WHN55-6830	WHN55-6850
		Shielded	WHS55-6805	WHS55-6810	WHS55-6820	WHS55-6830	WHS55-6850
MDR	100P	Unshielded	WHN55-0005	WHN55-0010	WHN55-0020	WHN55-0030	WHN55-0050
		Shielded	WHS55-0005	WHS55-0010	WHS55-0020	WHS55-0030	WHS55-0050
MDR MDR MDR	100P-50Px2	Unshielded	WHN55-T0005	WHN55-T0010	WHN55-T0020	WHN55-T0030	WHN55-T0050

### D-sub Female and D-sub Male Cable

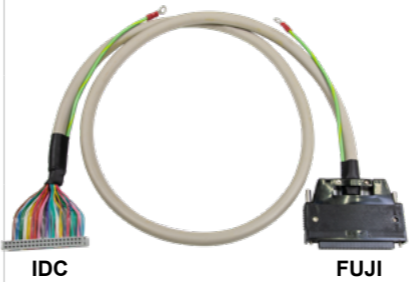
	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
D-sub Female	37P	Unshielded	WHN10-3705	WHN10-3710	WHN10-3720	WHN10-3730	WHN10-3750
		Shielded	WHS10-3705	WHS10-3710	WHS10-3720	WHS10-3730	WHS10-3750
D-sub Male	44P	Unshielded	WHN10-4405	WHN10-4410	WHN10-4420	WHN10-4430	WHN10-4450
		Shielded	WHS10-4405	WHS10-4410	WHS10-4420	WHS10-4430	WHS10-4450

### D-sub Male and D-sub Male Cable


	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
D-sub Male	37P	Unshielded	WHN11-3705	WHN11-3710	WHN11-3720	WHN11-3730	WHN11-3750
		Shielded	WHS11-3705	WHS11-3710	WHS11-3720	WHS11-3730	WHS11-3750
D-sub Male	44P	Unshielded	WHN11-4405	WHN11-4410	WHN11-4420	WHN11-4430	WHN11-4450
		Shielded	WHS11-4405	WHS11-4410	WHS11-4420	WHS11-4430	WHS11-4450

## Wire harness


### FUJI and IDC Cable

	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
IDC	40P	Unshielded	WHN37-4005	WHN37-4010	WHN37-4020	WHN37-4030	WHN37-4050
		Shielded	WHS37-4005	WHS37-4010	WHS37-4020	WHS37-4030	WHS37-4050


### IDC and IDC Cable

	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
IDC	14P	Unshielded	WHN33-1405	WHN33-1410	WHN33-1420	WHN33-1430	WHN33-1450
		Shielded	WHS33-1405	WHS33-1410	WHS33-1420	WHS33-1430	WHS33-1450
IDC	20P	Unshielded	WHN33-2005	WHN33-2010	WHN33-2020	WHN33-2030	WHN33-2050
		Shielded	WHS33-2005	WHS33-2010	WHS33-2020	WHS33-2030	WHS33-2050
IDC	26P	Unshielded	WHN33-2605	WHN33-2610	WHN33-2620	WHN33-2630	WHN33-2650
		Shielded	WHS33-2605	WHS33-2610	WHS33-2620	WHS33-2630	WHS33-2650
IDC	30P	Unshielded	WHN33-3005	WHN33-3010	WHN33-3020	WHN33-3030	WHN33-3050
		Shielded	WHS33-3005	WHS33-3010	WHS33-3020	WHS33-3030	WHS33-3050
IDC	34P	Unshielded	WHN33-3405	WHN33-3410	WHN33-3420	WHN33-3430	WHN33-3450
		Shielded	WHS33-3405	WHS33-3410	WHS33-3420	WHS33-3430	WHS33-3450
IDC	40P	Unshielded	WHN33-4005	WHN33-4010	WHN33-4020	WHN33-4030	WHN33-4050
		Shielded	WHS33-4005	WHS33-4010	WHS33-4020	WHS33-4030	WHS33-4050

### FUJI, Free cable end

	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
FUJI	40P	Unshielded	WHNX7-4005	WHNX7-4010	WHNX7-4020	WHNX7-4030	WHNX7-4050
		Shielded	WHSX7-4005	WHSX7-4010	WHSX7-4020	WHSX7-4030	WHSX7-4050

### IDC, Free cable end

	Connecting poles	Cable type	Length				
			0.5 m	1 m	2 m	3 m	5 m
IDC	20P	Unshielded	WHNX3-2005	WHNX3-2010	WHNX3-2020	WHNX3-2030	WHNX3-2050
		Shielded	WHSX3-2005	WHSX3-2010	WHSX3-2020	WHSX3-2030	WHSX3-2050
IDC	34P	Unshielded	WHNX3-3405	WHNX3-3410	WHNX3-3420	WHNX3-3430	WHNX3-3450
		Shielded	WHSX3-3405	WHSX3-3410	WHSX3-3420	WHSX3-3430	WHSX3-3450
IDC	40P	Unshielded	WHNX3-4005	WHNX3-4010	WHNX3-4020	WHNX3-4030	WHNX3-4050
		Shielded	WHSX3-4005	WHSX3-4010	WHSX3-4020	WHSX3-4030	WHSX3-4050

# Slim Relay Modules

## Compact components efficiently use space for high-speed switching: Slim Relay Modules

- Extra-thin design, with extra-high mechanical and electrical durability. With a maximum load current of 6A and a switching frequency can reaching up to 10KHZ, these modules are widely used for signal isolation, where installation space is restricted.
- Further advantages include safe and reliable function, long life, touch-safe, no spark, no pollution, high insulation, a high withstand voltage of 2.5kv and a low trigger current.

PID

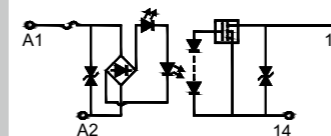
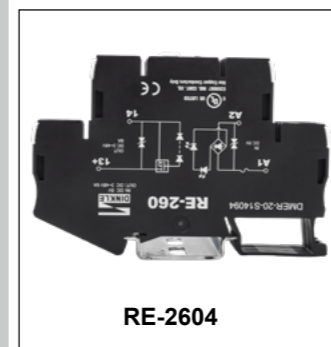


Dinkle's opto relay is a compact design with the thickness of 6.2mm only. It adopts push-in design (PID) spring clamping to connect wires, which saves wiring time. The double-layer design saves assembly space. In a limited space, the use of prepared wire or solid wire can be inserted in the spring clamp tool-free. Push down the orange button to easily withdraw the wire. Perfect marking label and printable housing provide users with clear wiring instructions. This helps to assemble wires accurately and reliably. This project can support signal transmission, isolation, adjustment or amplification.

### Push-in connection

- Insertion bridge (Plug-in)
  - 2
  - 3
  - 4
  - 5
  - 10
- Marking label
- DIN Rail
- Screwdriver

## Opto Relays



### Technical Data

#### Input Data

Rated voltage	5 VDC
Rated current	15-20 mA
Status indicator	(Red) LED
Max. Switching frequency	10-200 Hz*
Input polarity	Bipolar
Gate voltage ON / OFF	4.7 VDC / 3.3 VDC

#### Output (Load side) Data

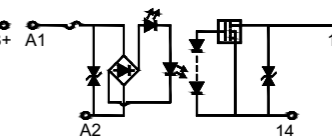
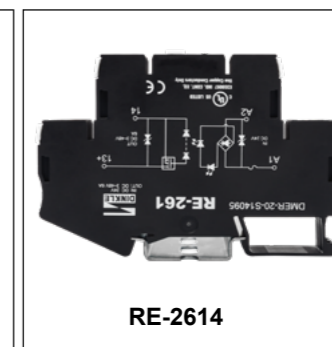
Rated voltage	3~48 VDC
Continuous current	6 A

#### General Data

Input type	NPN/PNP
Connection method	PID
Wire range (AWG / mm <sup>2</sup> )	24~14 / 0.25~2.5
Impulse withstand voltage	2.5 KV
Stripping length (mm)	10
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

#### Accessories Part No.

DSD05-6.202
DSD05-6.203
DSD05-6.204
DSD05-6.205
DSD05-6.210
TM43W
TS-35   TS-35/15
0.6 x 3.0 mm



### Technical Data

#### Input Data

Rated voltage	24 VDC
Rated current	15-20 mA
Status indicator	(Red) LED
Max. Switching frequency	10-200 Hz*
Input polarity	Bipolar
Gate voltage ON / OFF	22 VDC / 18 VDC

#### Output (Load side) Data

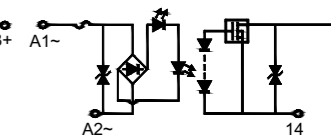
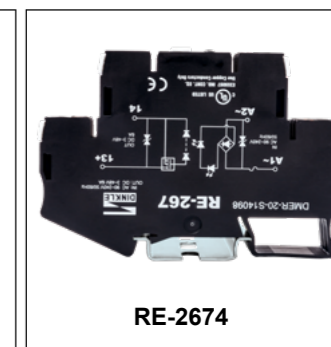
Rated voltage	3~48 VDC
Continuous current	6 A

#### General Data

Input type	NPN/PNP
Connection method	PID
Wire range (AWG / mm <sup>2</sup> )	24~14 / 0.25~2.5
Impulse withstand voltage	2.5 KV
Stripping length (mm)	10
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

#### Accessories Part No.

DSD05-6.202
DSD05-6.203
DSD05-6.204
DSD05-6.205
DSD05-6.210
TM43W
TS-35   TS-35/15
0.6 x 3.0 mm



### Technical Data

#### Input Data

Rated voltage	90~240 VAC
Rated current	65-80 mA
Status indicator	(Red) LED
Max. Switching frequency	10 Hz
Input polarity	Bipolar
Gate voltage ON / OFF	50 VAC / 50 VAC

#### Output (Load side) Data

Rated voltage	3~48 VDC
Continuous current	6 A

#### General Data

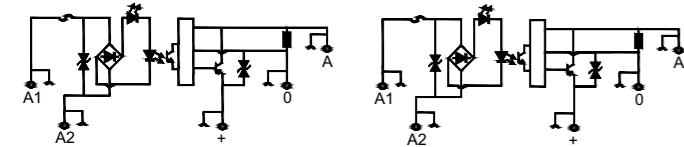
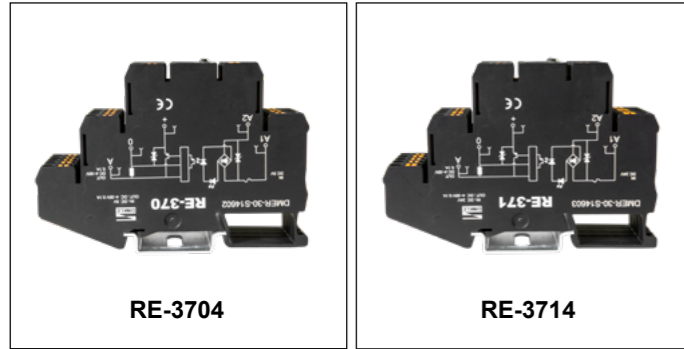
Input type	NPN/PNP
Connection method	PID
Wire range (AWG / mm <sup>2</sup> )	24~14 / 0.25~2.5
Impulse withstand voltage	2.5 KV
Stripping length (mm)	10
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

#### Accessories Part No.

DSD05-6.202
DSD05-6.203
DSD05-6.204
DSD05-6.205
DSD05-6.210
TM43W
TS-35   TS-35/15
0.6 x 3.0 mm

\* 10Hz - full load at 6A.

## Opto Relays

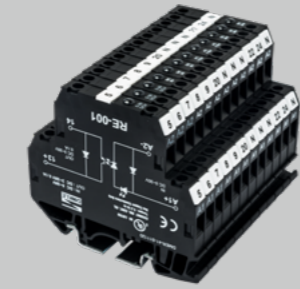


Technical Data		Technical Data	
Input Data		Input Data	
Rated voltage	5 VDC	Rated voltage	24 VDC
Rated current	10 mA	Rated current	10 mA
Status indicator	(Red) LED	Status indicator	(Red) LED
Max. Switching frequency	200 kHz	Max. Switching frequency	200 kHz
Input polarity	Bipolar	Input polarity	Bipolar
Gate voltage ON / OFF	4.5 VDC / 4 VDC	Gate voltage ON / OFF	19.2 VDC / 16.8 VDC

Output (Load side) Data		Output (Load side) Data	
Rated voltage	4~30 VDC	Rated voltage	4~30 VDC
Continuous current	0.1 A	Continuous current	0.1 A

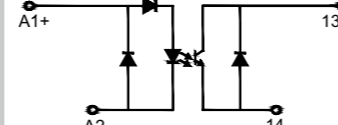
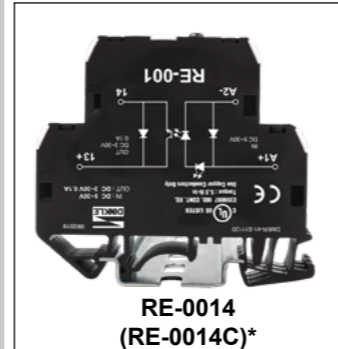
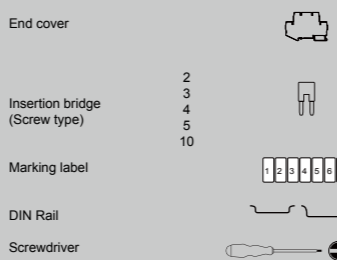
General Data		General Data	
Input type	Output : PNP (3-Conductor)	Input type	Output : PNP (3-Conductor)
Connection method	PID	Connection method	PID
Wire range (AWG / mm <sup>2</sup> )	24~14 / 0.25~2.5	Wire range (AWG / mm <sup>2</sup> )	24~14 / 0.25~2.5
Impulse withstand voltage	2.5 KV	Impulse withstand voltage	2.5 KV
Stripping length (mm)	10	Stripping length (mm)	10
Dimensions T x W x H (mm)	6.2 x 92 x 64.5	Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs	Package	10 pcs

Accessories Part No.	Accessories Part No.
DSD05-6.202-A DSD05-6.203-A DSD05-6.204-A DSD05-6.205-A DSD05-6.210-A	DSD05-6.202-A DSD05-6.203-A DSD05-6.204-A DSD05-6.205-A DSD05-6.210-A
TM43W	TM43W
TS-35   TS-35/15	TS-35   TS-35/15
0.6 x 3.5 mm	0.6 x 3.5 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 relay has a quick max. switching frequency at 10kHz which is suitable for any industrial and interface applications.

### Screw connection



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

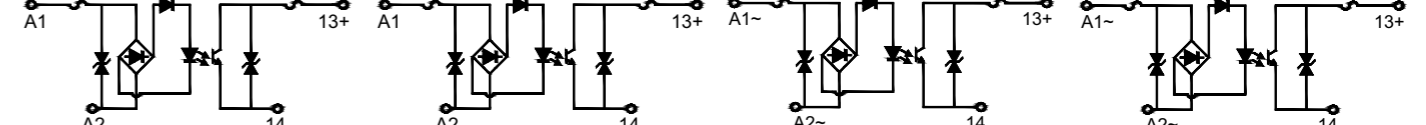
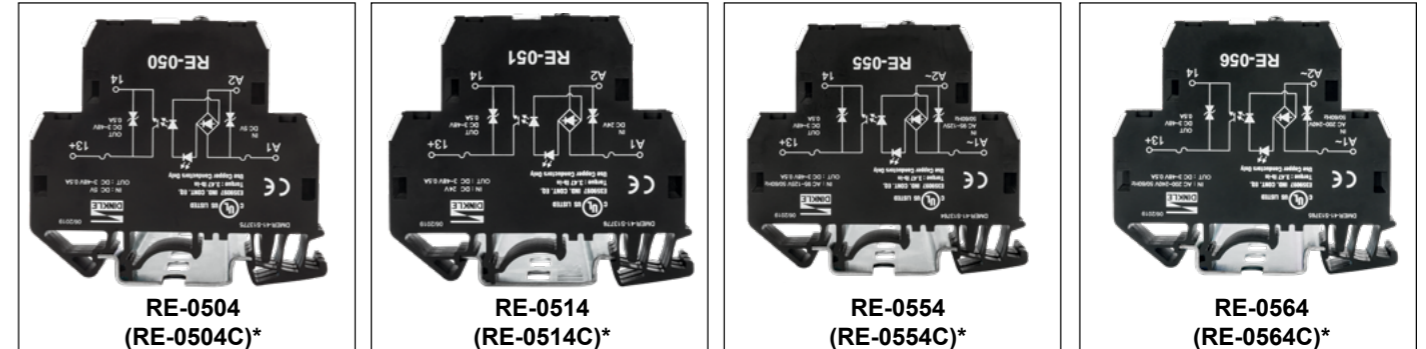
Output (Load side) Data	
Rated voltage	3~30 VDC
Continuous current	100 mA

General Data	
Input type	NPN
Connection method	Screw
Wire range (AWG / mm <sup>2</sup> )	24~12 / 0.25~4
Impulse withstand voltage	2.5 KV
Stripping length (mm)	7~8
Rated torque (N-m)	0.4
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

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

\* Product assembled with end cover.

## Opto Relays



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

Output (Load side) Data	
Rated voltage	3~48 VDC
Continuous current	500 mA

General Data	
Input type	NPN/PNP
Connection method	Screw
Wire range (AWG / mm <sup>2</sup> )	24~12 / 0.25~4
Impulse withstand voltage	2.5 KV
Stripping length (mm)	7~8
Rated torque (N-m)	0.4
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

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

\* Product assembled with end cover.

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

Output (Load side) Data	
Rated voltage	3~48 VDC
Continuous current	500 mA

General Data	
Input type	NPN/PNP
Connection method	Screw
Wire range (AWG / mm <sup>2</sup> )	24~12 / 0.25~4
Impulse withstand voltage	2.5 KV
Stripping length (mm)	7~8
Rated torque (N-m)	0.4
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

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

Technical Data	
Input Data	
Rated voltage	95~125 VAC
Rated current	0.6~1.3 mA
Status indicator	(Red) LED
Max. Switching frequency	10 Hz
Input polarity	Bipolar
Gate voltage ON / OFF	50 VAC / 50 VAC

Output (Load side) Data	
Rated voltage	3~48 VDC
Continuous current	500 mA

General Data	
Input type	NPN/PNP
Connection method	Screw
Wire range (AWG / mm <sup>2</sup> )	24~12 / 0.25~4
Impulse withstand voltage	2.5 KV
Stripping length (mm)	7~8
Rated torque (N-m)	0.4
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

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

Technical Data	
Input Data	
Rated voltage	200~240 VAC
Rated current	0.6~1.1 mA
Status indicator	(Red) LED
Max. Switching frequency	10 Hz
Input polarity	Bipolar
Gate voltage ON / OFF	130 VAC / 130 VAC

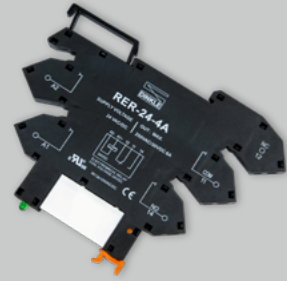
Output (Load side) Data	
Rated voltage	3~48 VDC
Continuous current	500 mA

General Data	
Input type	NPN/PNP
Connection method	Screw
Wire range (AWG / mm <sup>2</sup> )	24~12 / 0.25~4
Impulse withstand voltage	2.5 KV
Stripping length (mm)	7~8
Rated torque (N-m)	0.4
Dimensions T x W x H (mm)	6.2 x 92 x 64.5
Package	10 pcs

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

\* Product assembled with end cover.

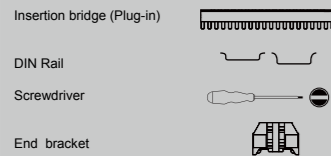




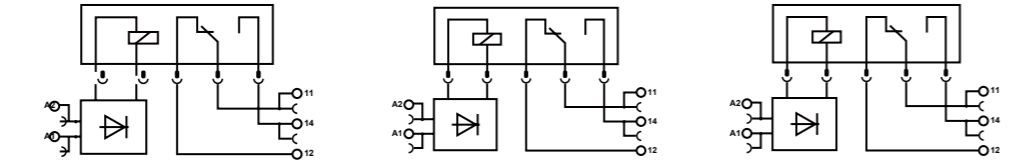
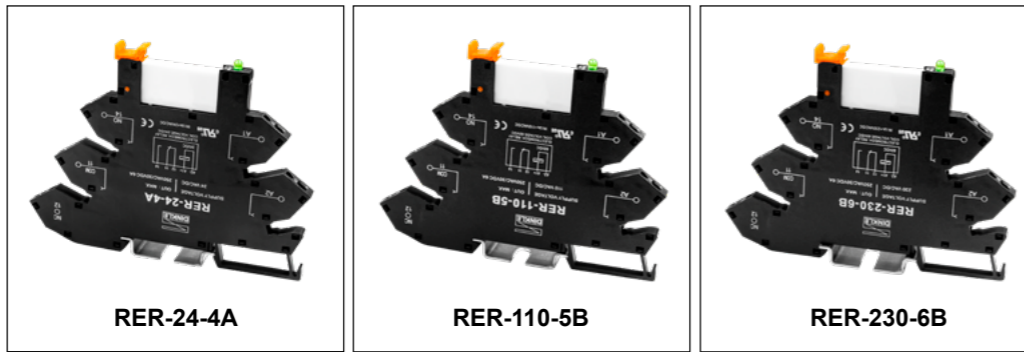
The slim relay adopts spring clamp connection, which has excellent resistance to vibration, input voltage from 24V, 110V, 230V; ideal for PLC, robotic arm, CNC and etc. The slim relay is designed with circuit protection, offering a safer operation condition for the user. Only 6.2mm in thickness, the design helps to improve the efficiency in the use of cabinet space.

- Easy replacement of relay
- Compact 6.2mm design
- Surge protection design
- Quick and ease wiring
- Status LED indicator

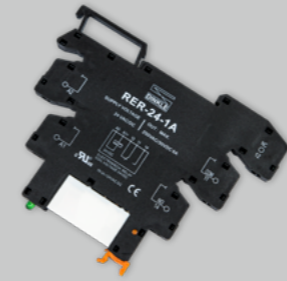
### Spring clamp connection



## Slim Relays



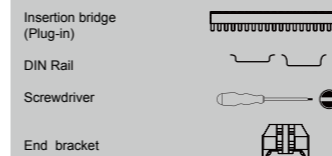
Technical Data		Technical Data		Technical Data	
Input Data		Input Data		Input Data	
Rated voltage	24 VAC / VDC	Rated voltage	110 VAC / VDC	Rated voltage	230 VAC / VDC
Rated current	11.1 mA	Rated current	3.4 mA	Rated current	3.7 mA
Typical response time	≤ 8 ms	Typical response time	≤ 8 ms	Typical response time	≤ 8 ms
Typical release time	≤ 4 ms	Typical release time	≤ 4 ms	Typical release time	≤ 4 ms
Protective circuit	Bridge rectifier Surge protection	Protective circuit	Bridge rectifier	Protective circuit	Bridge rectifier
Status indicator	(Green) LED	Status indicator	(Green) LED	Status indicator	(Green) LED
Contact		Contact		Contact	
Contact form	1C	Contact form	1C	Contact form	1C
Contact rating (Res. load)	6A, 250 VAC / 30 VDC	Contact rating (Res. load)	6A, 250 VAC / 30 VDC	Contact rating (Res. load)	6A, 250 VAC / 30 VDC
Max. switching voltage	400 VAC / 125 VDC	Max. switching voltage	400 VAC / 125 VDC	Max. switching voltage	400 VAC / 125 VDC
Max. switching current	6 A	Max. switching current	6 A	Max. switching current	6 A
Contact resistance	≤ 100 mΩ (1A, 6 VDC)	Contact resistance	≤ 100 mΩ (1A, 6 VDC)	Contact resistance	≤ 100 mΩ (1A, 6 VDC)
Mechanical endurance	1 x 10 <sup>7</sup> cycles	Mechanical endurance	1 x 10 <sup>7</sup> cycles	Mechanical endurance	1 x 10 <sup>7</sup> cycles
Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC	Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC	Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC
General		General		General	
Dielectric strength	Coil & contacts	4000 VAC / 1 min	Dielectric strength	Coil & contacts	4000 VAC / 1 min
	Open contacts	1000 VAC / 1 min		Open contacts	1000 VAC / 1 min
Shock resistance	Functional	49 m/s <sup>2</sup>	Shock resistance	Functional	49 m/s <sup>2</sup>
	Destructive	980 m/s <sup>2</sup>		Destructive	980 m/s <sup>2</sup>
Dimensions T x W x H (mm)	6.2 x 78.8 x 103	Dimensions T x W x H (mm)	6.2 x 78.8 x 103	Dimensions T x W x H (mm)	6.2 x 78.8 x 103
Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5	Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5	Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5
Connection method	Spring clamp	Connection method	Spring clamp	Connection method	Spring clamp
Rated torque (N-m)	-	Rated torque (N-m)	-	Rated torque (N-m)	-
Accessories Part No.		Accessories Part No.		Accessories Part No.	
0149-4S-20		0149-4S-20		0149-4S-20	
TS-35   TS-35/15		TS-35   TS-35/15		TS-35   TS-35/15	
0.4 x 2.5 mm		0.4 x 2.5 mm		0.4 x 2.5 mm	
SS4N		SS4N		SS4N	



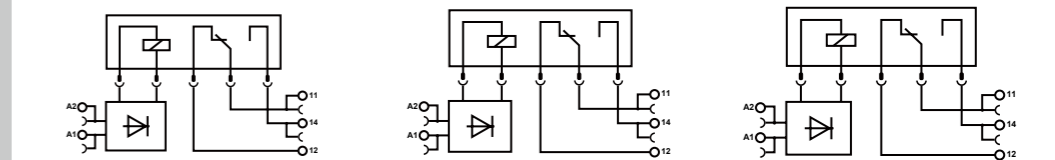
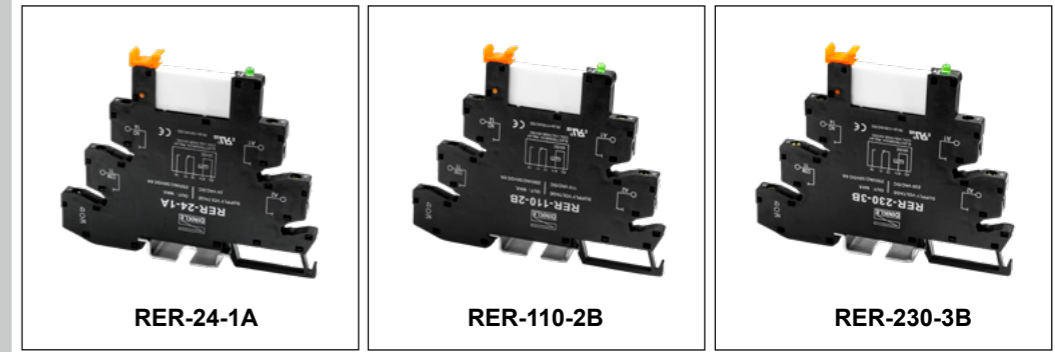
The slim relay adopts screw connection, which has excellent wiring strength, multi-voltage input from 24V, 110V, 230V; ideal for PLC controller, robotic arm, CNC equipment, interface control platform and other industrial control application. The slim relay is designed with circuit protection, offering a safer operation condition for the user. Only 6.2mm in thickness, the design helps to improve the efficiency in the use of cabinet space..

- Easy replacement of relay with the push the lever
- Multi-voltage input from 24V to 230V
- Compact 6.2mm design
- Status LED indicator
- Surge protection design

### Screw connection



## Slim Relays



Technical Data		Technical Data		Technical Data	
Input Data		Input Data		Input Data	
Rated voltage	24 VAC / VDC	Rated voltage	110 VAC / VDC	Rated voltage	230 VAC / VDC
Rated current	11.1 mA	Rated current	3.4 mA	Rated current	3.7 mA
Typical response time	≤ 8 ms	Typical response time	≤ 8 ms	Typical response time	≤ 8 ms
Typical release time	≤ 4 ms	Typical release time	≤ 4 ms	Typical release time	≤ 4 ms
Protective circuit	Bridge rectifier Surge protection	Protective circuit	Bridge rectifier	Protective circuit	Bridge rectifier
Status indicator	(Green) LED	Status indicator	(Green) LED	Status indicator	(Green) LED
Contact		Contact		Contact	
Contact form	1C	Contact form	1C	Contact form	1C
Contact rating (Res. load)	6A, 250 VAC / 30 VDC	Contact rating (Res. load)	6A, 250 VAC / 30 VDC	Contact rating (Res. load)	6A, 250 VAC / 30 VDC
Max. switching voltage	400 VAC / 125 VDC	Max. switching voltage	400 VAC / 125 VDC	Max. switching voltage	400 VAC / 125 VDC
Max. switching current	6 A	Max. switching current	6 A	Max. switching current	6 A
Contact resistance	≤ 100 mΩ (1A, 6 VDC)	Contact resistance	≤ 100 mΩ (1A, 6 VDC)	Contact resistance	≤ 100 mΩ (1A, 6 VDC)
Mechanical endurance	1 x 10 <sup>7</sup> cycles	Mechanical endurance	1 x 10 <sup>7</sup> cycles	Mechanical endurance	1 x 10 <sup>7</sup> cycles
Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC	Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC	Electrical endurance	3 x 10 <sup>4</sup> cycles, NO 1 x 10 <sup>4</sup> cycles, NC
General		General		General	
Dielectric strength	Coil & contacts	4000 VAC / 1 min	Dielectric strength	Coil & contacts	4000 VAC / 1 min
	Open contacts	1000 VAC / 1 min		Open contacts	1000 VAC / 1 min
Shock resistance	Functional	49 m/s <sup>2</sup>	Shock resistance	Functional	49 m/s <sup>2</sup>
	Destructive	980 m/s <sup>2</sup>		Destructive	980 m/s <sup>2</sup>
Dimensions T x W x H (mm)	6.2 x 78.8 x 96	Dimensions T x W x H (mm)	6.2 x 78.8 x 96	Dimensions T x W x H (mm)	6.2 x 78.8 x 96
Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5	Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5	Wire range (AWG / mm <sup>2</sup> )	20-16 / 0.5-1.5
Connection method	Screw	Connection method	Screw	Connection method	Screw
Rated torque (N-m)	0.5	Rated torque (N-m)	0.5	Rated torque (N-m)	0.5
Accessories Part No.		Accessories Part No.		Accessories Part No.	
0149-4S-20		0149-4S-20		0149-4S-20	
TS-35   TS-35/15		TS-35   TS-35/15		TS-35   TS-35/15	
0.4 x 2.5 mm		0.4 x 2.5 mm		0.4 x 2.5 mm	
SS4N		SS4N		SS4N	

# Power Supply

Dinkle power supplies are cost-effective, with a compact and narrow-width form factor. These power supplies accept a universal AC input voltage range, comply with harmonic current EN61000-3-2, Class A standards, and have obtained multiple international certifications.

- Input Voltage: 85-264 VAC, 120-375 VDC
- Operating Temperature: -20°C to +70°C








**90%**  
Operating efficiency is greater than 90% under full load.

**PFC**  
Built-in power factor correction (PFC) in the circuit structure improves the power factor.

**Safety**  
The circuit board is dust-proof, and it has a chemical pollution resistance treatment with multiple built-in safety protection functions.

**700,000 hours**  
Up to 80 years between an inherent failure.

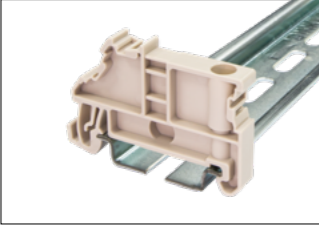
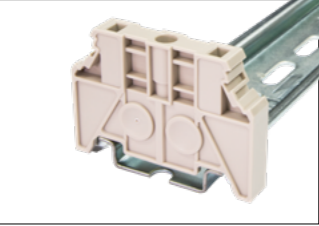
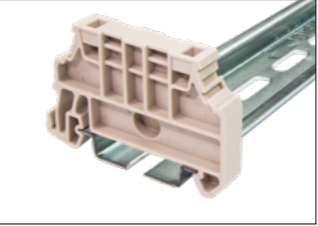

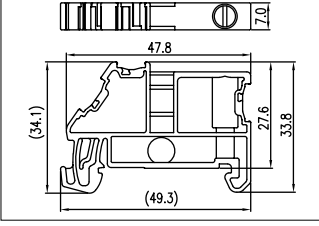
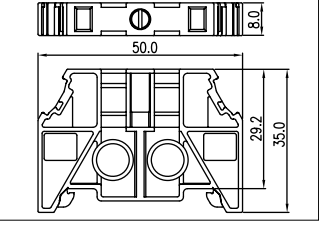
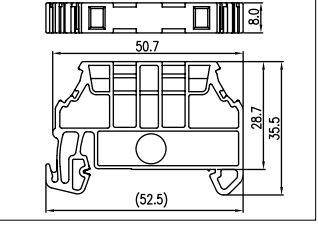
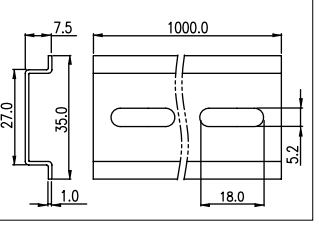
## Power Supply

					
<b>Part Number</b>	<b>0165N-24V120W1AC</b>	<b>0165N-24V240W1AC</b>	<b>0165N-24V480W1AC</b>	<b>0165N-24V75W1AC</b>	<b>0165N-24V30W1AC</b>
<b>Input Data</b>					
<b>Input Voltage Range</b>	Single Phase, 85-264 VAC (120-375 VDC)			Single Phase, 85-264 VAC	
<b>Input Frequency Range</b>	47-63 Hz				
<b>Input Current</b>	< 2.2 A (115 VAC) < 1.2 A (230 VAC)	< 2.8 A (115 VAC) < 1.4 A (230 VAC)	< 5.4 A (115 VAC) < 2.7 A (230 VAC)	< 1.4 A (115 VAC) < 0.9 A (230 VAC)	< 0.8 A (115 VAC) < 0.4 A (230 VAC)
<b>Max Inrush Current</b>	< 20 A (115 VAC) < 40 A (230 VAC)	< 20 A (115 VAC) < 40 A (230 VAC)	< 40 A (115 VAC) < 80 A (230 VAC)	< 80 A (230 VAC)	< 30 A (115 VAC) < 60 A (230 VAC)
<b>Leakage Current (A)</b>	< 0.25 mA (264 VAC)	< 1 mA (264 VAC)	< 1 mA (264 VAC)	< 1 mA (240 VAC)	< 0.5 mA (240 VAC)
<b>Output Data</b>					
<b>Output Efficiency</b>	88.0 % (230 VAC , 100 % load)	90.0 % (230 VAC , 100 % load)	88.0 % (230 VAC , 100 % load)	89.0 % (230 VAC , 100 % load)	88.0 % (230 VAC , 100 % load)
<b>Nominal Output Voltage</b>	24 VDC				
<b>Output Voltage Adjustment Range</b>	22-28 VDC	22-28 VDC	22-28 VDC	21.6-26 VDC	21.6-26.4 VDC
<b>Output Current</b>	5.0 A (120W max.)	10.0 A (240W max.)	20.0 A (480W max.)	3.125 A	1.25 A
<b>Load Power</b>	120 W	240 W	480 W	75 W	30 W
<b>PARV (20MHz)</b>	< 120 mVpp (-10~+70 °C) < 240 mVpp (-10~-70 °C)	< 120 mVpp (0~70 °C) < 240 mVpp (0~-10 °C) < 360 mVpp (0~70 °C)	< 120 mVpp (0~70 °C) < 240 mVpp (0~-10 °C) < 360 mVpp (0~70 °C)	< 120 mVpp (-10~70 °C) < 360 mVpp (-10~-30 °C)	< 150 mVpp (0~70 °C) < 500 mVpp (0~-20 °C)
<b>Mechanical</b>					
<b>Case Cover</b>	SGCC / Aluminium	SGCC / Aluminium	SGCC / Aluminium	Plastic	Plastic
<b>Dimensions L x W x D (mm)</b>	123.6 x 40 x 123.6 mm	123.6 x 60 x 123.6 mm	134.3 x 85.5 x 123.6 mm	123.6 x 27 x 102 mm	78 x 21 x 89.5 mm
<b>Weight</b>	0.54 kg	0.80 kg	1.3 kg	0.22 kg	0.10 kg
<b>LED Indicator</b>	Green				
<b>Environment</b>					
<b>Operating Temperature</b>	-20 °C to +70 °C				
<b>Storage Temperature</b>	-40°C to +85 °C				
<b>Operating Humidity</b>	5 ~95 % RH (Non-Condensing)				
<b>Power De-rating</b>	>40 °C · 1.67 % / °C ; > 50 °C , 2.5 % / °C			> 55 °C , 2.5 % / °C	
<b>Shock Test</b>	IEC60068-2-27. Half Sine Wave: 10 G				
<b>Vibration</b>	IEC60068-2-6, Sine Wave: 19.6 m/s <sup>2</sup>				
<b>Pollution Degree</b>	2				
<b>Operating Altitude</b>	ICE application : 0~2000 m, ITE application : 0~5000 m				0~2000 m
<b>Protections</b>					
<b>Overcurrent</b>	105-150 %	105-150 %	109-130 %	105-133 %	110-150 %
<b>Overvoltage</b>	YES				Auto-Recovery
<b>Over Temperature</b>	YES				Auto-Recovery
<b>Short Circuit</b>	Auto-Recovery				
<b>MTBF</b>	> 700,000 Hours				
<b>Expected Life Time</b>	10 years				
<b>Safety Standards / Directives</b>					
<b>Electrical Safety</b>	SELV, EN 60950-1, IEC 60950-1, UL 60950-1, CSA C22.2				
<b>UL</b>	UL 508, CSAC 22.2				
<b>CE</b>	In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU				
<b>RoHs</b>	RoHs Compliant According to Directive (EU) 2015/863 (EN50581)				
<b>SEMI F47</b>	YES				NO
<b>NEC class 2 &amp; LPS</b>	NO			YES	

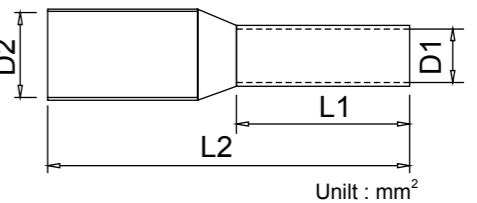
# Accessories

Dinkle provides ergonomic tools and complies with international standards such as DIN, ISO and ANSI. Tools and ferrules make it easier for users to complete wiring work. In addition, we also provide durable end bracket and DIN Rails.

## End Bracket & DIN Rail

SS2N	SS4N	SS5N	TS-35-1000
			
			

## Ferrules For Single Wire

Unit : mm<sup>2</sup>

Tools

**DNT13-0102**



0.08~10mm<sup>2</sup> / AWG 28~7

**DNT04-2616A**



0.2~1.25mm<sup>2</sup> / AWG26~16

**DNT04-2010A**



0.6~5mm<sup>2</sup> / AWG20~10

Part number	Diameter AWG (mm <sup>2</sup> )	Size(mm)				Package		DIN 46228/4 color
		D1	D2	L1	L2	Pcs / bag	Pcs / box	
DN00208D	24 (0.2)	0.75	1.9	8	12	1000	10	● Light Blue
DN00308D	22 (0.34)	0.8	1.9	8	12	1000	10	● Turouise
DN00508D	20 (0.5)	1.0	2.6	8	14	500	10	○ White
DN00510D				10	16	500	8	
DN00708D	18 (0.75)	1.2	2.8	8	14	500	8	● Grey
DN00710D				10	16			
DN00712D				12	18			
DN01008D	(1)	1.4	3.0	8	14	500	6	● Red
DN01010D				10	16			
DN01012D				12	18			
DN01508D	16 (1.5)	1.7	3.5	8	14	500	4	● Black
DN01510D				10	16			
DN01512D				12	18			
DN02508D	14 (2.5)	2.2	4.2	8	14	500	4	● Blue
DN02510D				10	16	500	3	
DN02512D				12	18			
DN04010D	12 (4)	2.8	4.8	10	17	500	2	● Grey
DN04012D				12	20			
DN06012D	10 (6)	3.5	6.3	12	20	500	1	● Yellow
DN10012D	7 (10)	4.5	7.6	12	22	200	1	● Red

## Screwdriver

Part number	A	B	C	Pcs / box
DNT11-0102	0.4	2.5	75	12
DNT11-0107	0.6	3.5	100	12
DNT11-0109	0.8	4.0	100	12
DNT11-0111	1.0	5.5	150	12

Slotted Screwdriver

