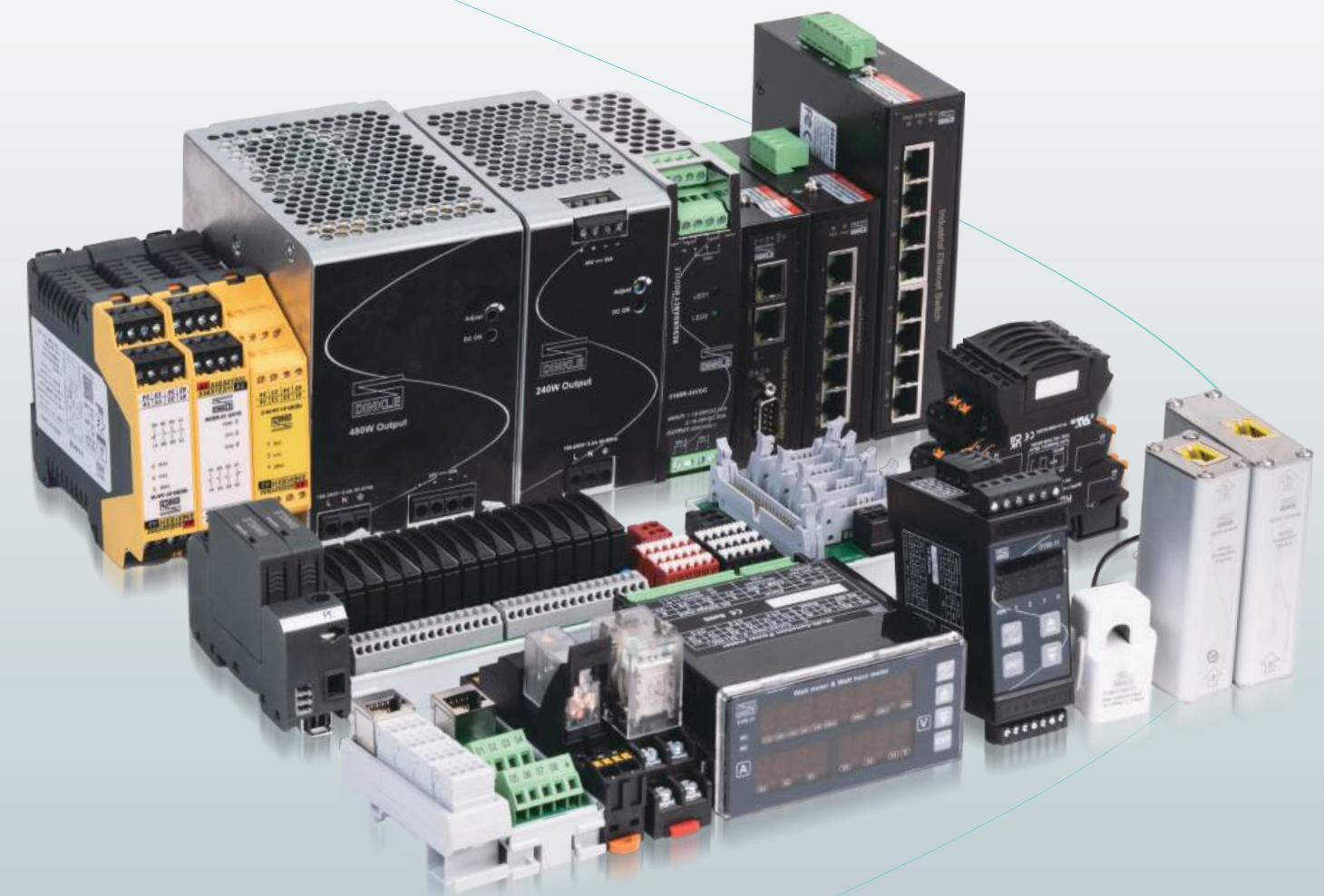


Electronic Portfolio Catalog



Delight Through Connections



DINKLE ENTERPRISE CO., LTD.

No. 19, Wuquan 2nd Road, Wugu District,
New Taipei City 248020, Taiwan

TEL:+886-2-8069-9000 7705-6900 FAX:+886-2-2290-1705 (代表號)

DINKLE CORPORATION, USA

13748 Pike Road,
Missouri City, Texas 77489, United States

TEL:+1-832-391-8231 Toll-Free:+1-844-273-1850 FAX:+1-832-532-7226

DINKLE S.R.L., ITALY

Via Stabilini 14,
Malgrate Lombardia 23864, Italia

TEL:+39-34-1171-6154

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The catalogue is for reference only. The final product is made according to actual
engineering drawing.

弊社標準品に関しては、修正や設計変更等が行われるため、カタログは参考であり、
詳細仕様は図面を基準とする。

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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町洋企業股份有限公司
DINKLE ENTERPRISE CO., LTD.

DC-38.1e



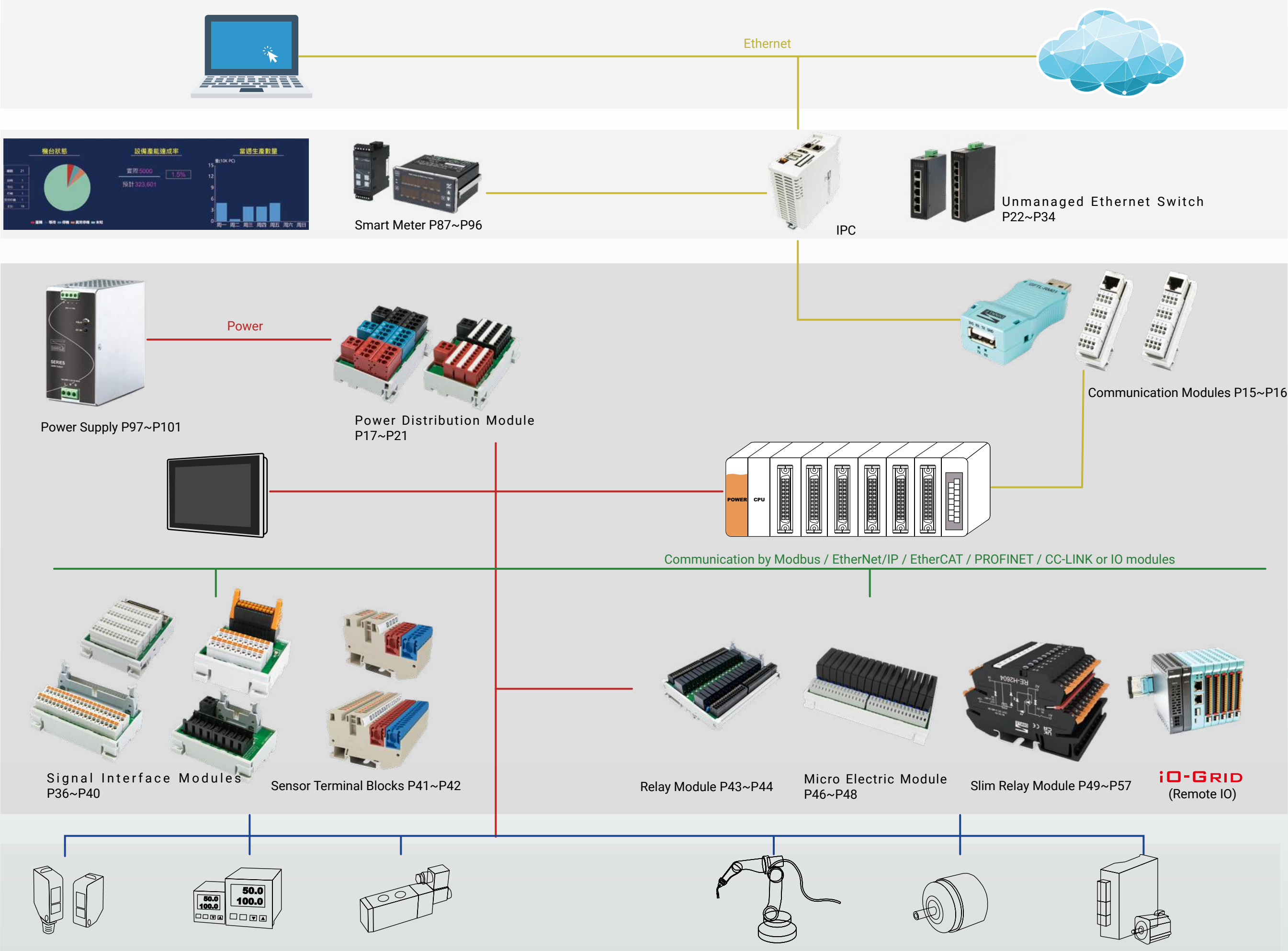
Solutions for Digital Transformation

ERP

MoM

Control Level

Device Level



Category List

Communication Modules Overview

Connection Method	Connector	Communication Interface	Part Number	Page
PID	RJ45	-	0170-0201	P16
PID	RJ45	-	0170-0202	P16
PID	RJ45	-	0170-0203	P16
Screw	RJ45	-	0170-0305	P16
PID	USB	RS485	GFTL-RM02	P16
-	USB	USB HDD	GFTL-G001	P16

Distribution Module Overview

Connection Method	Distribution Type	Number of Connections	Part Number	Page
PID	1 input to 8 outputs	8+8	0241-P116	P18
PID	1 input to 8 outputs	8+8	0241-P116A	P18
PID	1 input to 12 outputs	12+12	0241-P124	P18
PID	1 input to 12 outputs	12+12	0241-P124A	P18
PID	1 input to 18 outputs	18+18	0241-P136	P19
PID	1 input to 18 outputs	18+18	0241-P136A	P19
PID	1 input to 24 outputs	24+24	0241-P148	P19
PID	1 input to 24 outputs	24+24	0241-P148A	P19
PID	1 input to 24 outputs	24+24	0241-P248	P20
PID	1 input to 24 outputs	24+24	0241-P248A	P20
PID	1 input to 8 outputs	8+8	0241-P316	P20
PID	1 input to 8 outputs	8+8+8	0241-P424	P21

Unmanaged Ethernet Switch Overview

Network Speed	POE(Power over Ethernet)	Network Connector	Part Number	Page
10/100Base	NO	RJ45x5 PORT	0401-0051	P23
10/100/1000Base	NO	RJ45x5 PORT	0401-0052	P23

Unmanaged Ethernet Switch Overview

Network Speed	POE(Power over Ethernet)	Network Connector	Part Number	Page
10/100Base	NO	RJ45x8 PORT	0401-0080	P24
10/100/1000Base	NO	RJ45x8 PORT	0401-0081	P23
10/100/1000Base	NO	RJ45x16 PORT	0401-00S4	P24
10/100Base	YES	RJ45x5 PORT	0401-0151	P25
10/100/1000Base	YES	RJ45x5 PORT	0401-0152	P25
10/100Base	YES	RJ45x8 PORT	0401-0180	P25
10/100/1000Base	YES	RJ45x8 PORT	0401-0181	P26
10/100/1000Base	YES	RJ45x16 PORT	0401-01S4	P26
10/100/1000Base	YES	RJ45x5 PORT+Voltage Booster	0401-0254	P26
10/100/1000Base	YES	RJ45x8 PORT+Voltage Booster	0401-0284	P27
10/100/1000Base	YES	RJ45x5+SFPx2PORT	0401-0374	P27
10/100Base	NO	RJ45x5 PORT(BSP+QoS)	0401-0553	P28
10/100/1000Base	NO	RJ45x5 PORT(BSP+QoS)	0401-0554	P28
10/100Base	NO	RJ45x8 PORT(BSP+QoS)	0401-0583	P28
10/100/1000Base	NO	RJ45x8 PORT(BSP+QoS)	0401-0584	P29
10/100Base	YES	RJ45x5 PORT(BSP+QoS)	0401-3053	P30
10/100/1000Base	YES	RJ45x5 PORT(BSP+QoS)	0401-3054	P30
10/100Base	YES	RJ45x8 PORT(BSP+QoS)	0401-3083	P30
10/100/1000Base	YES	RJ45x8 PORT(BSP+QoS)	0401-3084	P31
Industrial Communication Gateway				
10/100Base	NO	1 x DB9 male + 2 x10/100M RJ45	0401-0733	P32
PoEEthernet Waterproof Enclosure				
10/100/1000Base	YES	RJ45x5+SFPx2 PORT	0219-0101	P34
10/100/1000Base	YES	RJ45x8 PORT	0219-0102	P34

Signal Interface Modules Overview

Connection Method	Connector	Indicator	Part Number	Page
PID	Input : IDC 40-Pin, Output: IDC 14-Pin* 4 Sets	NO	0241-C140K1	P37
PID	Input : IDC 40-Pin, Output: IDC 20-Pin* 2 Sets	NO	0241-C140K2	P37
PID	IDC 14-Pin, Mini Clamp Connector Socket	NO	0241-C114K	P37
PID	IDC 20-Pin, Mini Clamp Connector Socket	NO	0241-C120K	P37
PID	IDC 14-Pin	NO	0241-C114	P38
PID	IDC 20-Pin	NO	0241-C120	P38
PID	IDC 26-Pin	NO	0241-C126	P38
PID	IDC 30-Pin	NO	0241-C130	P38
PID	IDC 34-Pin	NO	0241-C134	P38
PID	IDC 40-Pin	NO	0241-C140	P38
Screw	IDC 20-Pin	NO	0241-C120S	P38
Screw	IDC 34-Pin	NO	0241-C134S	P38
Screw	IDC 40-Pin	NO	0241-C140S	P38
PID	D-Sub(Female) 37-Pin	NO	0241-C237	P38
PID	D-Sub(Female) 44-Pin	NO	0241-C244	P38
PID	MDR 20-Pin	NO	0241-C320	P38

Signal Interface Modules Overview

Connection Method	Connector	Indicator	Part Number	Page
PID	MDR 26-Pin	NO	0241-C326	P38
PID	MDR 50-Pin	NO	0241-C350	P38
PID	MDR 68-Pin	NO	0241-C368	P38
PID	MDR 100-Pin	NO	0241-C300	P38
PID	IDC 20-Pin	YES	0241-C120LED	P39
PID	IDC 34-Pin	YES	0241-C134LED	P39
PID	IDC 40-Pin	YES	0241-C140LED	P39
PID	Terminal Block/ Plug 20-Pin	YES	0241-C420LEDA	P39
PID	Terminal Block/ Plug 34-Pin	YES	0241-C434LEDA	P40
PID	Terminal Block/ Plug 40-Pin	YES	0241-C440LEDA	P40

Sensor Terminal Blocks Overview

Connection Method	Number of Sensors	Signal		Power		Part Number	Page
		Rated Voltage	Rated Current	Rated Voltage	Rated Current		
PID	4 sets	600V	20A	300V	10A	DP2.5SGQK01	P41
PID	8 sets	600V	20A	300V	10A	DP2.5SGQK02	P41
PID	12 sets	600V	20A	300V	10A	DP2.5SGQK03	P42
PID	16 sets	600V	20A	300V	10A	DP2.5SGQK04	P42
PID	20 sets	600V	20A	300V	10A	DP2.5SGQK05	P42

Relay Module Overview

Connection Method	Input (24VDC)		Output			Part Number	Page
	Input Type	Connector	Number of Relays	Current	Contact Form		
PID	NPN / PNP	IDC 14-Pin	8	5A	1A	0240-A108	P43
PID	NPN / PNP	IDC 20-Pin	16	5A	1A	0240-A116	P43
PID	NPN / PNP	IDC 40-Pin	32	5A	1A	0240-A132	P43
PID	NPN / PNP		2	10A	1A	0240-A202	P44
PID	NPN / PNP		4	10A	1A	0240-A204	P44
PID	NPN / PNP		6	10A	1A	0240-A206	P44
PID	NPN / PNP	IDC 14-Pin	8	10A	1A	0240-A208	P44
PID	NPN / PNP	IDC 14-Pin	12	10A	1A	0240-A212	P44
PID	NPN / PNP	IDC 20-Pin	16	10A	1A	0240-A216	P44
PID	NPN / PNP		2	10A	1C	0240-C202	P44
PID	NPN / PNP		4	10A	1C	0240-C204	P44
PID	NPN / PNP		6	10A	1C	0240-C206	P44
PID	NPN / PNP	IDC 14-Pin	8	10A	1C	0240-C208	P44
PID	NPN / PNP	IDC 14-Pin	12	10A	1C	0240-C212	P44
PID	NPN / PNP	IDC 20-Pin	16	10A	1C	0240-C216	P44
Screw	NPN / PNP		2	10A	1C	0240-C202S	P44
Screw	NPN / PNP		4	10A	1C	0240-C204S	P44

Relay Module Overview

Connection Method	Input (24VDC)		Output			Part Number	Page
	Input Type	Connector	Number of Relays	Current	Contact Form		
Screw	NPN / PNP		6	10A	1C	0240-C206S	P44
Screw	NPN / PNP	IDC 14-Pin	8	10A	1C	0240-C208S	P44
Screw	NPN / PNP	IDC 14-Pin	12	10A	1C	0240-C212S	P44
Screw	NPN / PNP	IDC 20-Pin	16	10A	1C	0240-C216S	P44
PID	NPN / PNP		8	1A	2C	0240-C308	P44
PID	NPN / PNP		8	1A	2C	0240-C308A	P44

Micro Relay Module Overview

Connection Method	Input			Output			Part Number	Page
	Input Type	Voltage	Current	Voltage	Current	Contact Form		
PID	-	24 VDC	7.5mA	250VAC/30VDC	5A	1A	0240-A104B-U-HF	P47
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1A	0240-A102BB-U-HF	P48
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1A	0240-A104BB-U-HF	P48
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1A	0240-A108BB-U-HF	P48
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1A	0240-A116BB-U-HF	P48
PID	NPN/PNP	24 VDC	7.08mA	250VAC/30VDC	5A	1A	0240-A116CB-U-HF	P47
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1 C	0240-C102DB-U-HF	P48
PID	-	24 VDC	7.08mA	250VAC/30VDC	5A	1 C	0240-C104DB-U-HF	P48

Slim Relay Module Overview

Opto Relay								
Connection Method	Input			Output			Part Number	Page
	Input Type	Voltage	Current	Voltage	Current	Contact Form		
P-LUP	NPN / PNP	5 VDC	15~20 mA	3~48 VDC	6A	1A	RE-H2604	P50
P-LUP	NPN / PNP	24 VDC	15~20 mA	3~48 VDC	6A	1A	RE-H2614	P50
P-LUP	NPN / PNP	90~240 VAC	40mA	3~48 VDC	6A	1A	RE-H2674	P50
P-LUP	NPN / PNP	200~240 VAC	40mA	3~48 VDC	6A	1A	RE-H2664	P51
PID	PNP	5 VDC	10mA	4~30 VDC	0.1A	1A	RE-3704	P52
PID	PNP	24 VDC	10mA	4~30 VDC	0.1A	1A	RE-3714	P52
PID	NPN	24 VDC	8mA	24~253 VAC	2.4A	1A	RE-3814	P52
Screw	NPN	5~30 VDC	6mA	3~30 VDC	0.1A	1A	RE-S0014	P53
Screw	NPN / PNP	5 VDC	15~18 mA	3~48 VDC	0.5A	1A	RE-S0504	P53
Screw	NPN / PNP	24 VDC	12~14 mA	3~48 VDC	0.5A	1A	RE-S0514	P53
Screw	NPN / PNP	95~125 VAC	0.6~1.3 mA	3~48 VDC	0.5A	1A	RE-S0554	P54
Screw	NPN / PNP	200~240 VAC	0.6~1.1 mA	3~48VDC	0.5A	1A	RE-S0564	P54

Slim Relay Module Overview

Slim Relay								
Connection Method	Input			Output			Part Number	Page
	Input Type	Voltage	Current	Voltage	Current	Contact Form		
P-LUP	NPN / PNP	24 VAC / VDC	11.1mA	400 VAC 125 VDC	6A	1 C	RER-H1C-24	P55
P-LUP	NPN / PNP	110 VAC / VDC	3.4mA	400 VAC 125 VDC	6A	1 C	RER-H1C-110	P55
P-LUP	NPN / PNP	230 VAC / VDC	3.7mA	400 VAC 125 VDC	6A	1 C	RER-H1C-230	P55
Screw	NPN / PNP	24 VAC / VDC	11.1mA	400 VAC 125 VDC	6A	1 C	RER-S1C-24	P56
Screw	NPN / PNP	110 VAC / VDC	3.4mA	400 VAC 125 VDC	6A	1 C	RER-S1C-110	P56
Screw	NPN / PNP	230 VAC / VDC	3.7mA	400 VAC 125 VDC	6A	1 C	RER-S1C-230	P56
PID	NPN / PNP	24 VAC / VDC	11.1mA	400 VAC 125 VDC	6A	1 C	RER-P1C-24	P57
PID	NPN / PNP	110 VAC / VDC	3.4mA	400 VAC 125 VDC	6A	1 C	RER-P1C-110	P57
PID	NPN / PNP	230 VAC / VDC	3.7mA	400 VAC 125 VDC	6A	1 C	RER-P1C-230	P57

Compact Relay J Series Overview

Type	Rated Voltage	Rated Current	Contacts	Part Number	Page
Relay	24VDC	21.8mA	1C	RER-J1C-D24	P61
	120VAC	7.6mA	1C	RER-J1C-A120	P61
	230VAC	3.9mA	1C	RER-J1C-A230	P61
	24VDC	21.8mA	2C	RER-J2C-D24	P63
	120VAC	7.6mA	2C	RER-J2C-A120	P63
	230VAC	3.9mA	2C	RER-J2C-A230	P63
Type	Connection Method	Applicable Relay Series		Part Number	Page
Relay Socket	PID	RER-J1C-XXXX		0149-3T-05ST	P65
	Screw			0149-30-05A	P65
	Cage clamp socket			0149-33-05E	P65
	PID	RER-J2C-XXXX		0149-3T-08ST	P65
	Screw			0149-30-08A	P65
	Cage clamp socket			0149-33-08E	P65

General-purpose Relay S / M Series Overview

Type	Rated Voltage	Rated Current	Contacts	Part Number	Page
Relay	24VDC	36.9mA	2C	RER-S2C-D24	P69
	120VAC	9.2mA	2C	RER-S2C-A120	P69
	230VAC	5.5mA	2C	RER-S2C-A230	P69
	24VDC	36.9mA	4C	RER-S4C-D24	P71
	120VAC	9.2mA	4C	RER-S4C-A120	P71
	230VAC	5.5mA	4C	RER-S4C-A230	P71
	24VDC	36.9mA	2C	RER-M2C-D24	P73
	120VAC	9.2mA	2C	RER-M2C-A120	P73
	230VAC	5.5mA	2C	RER-M2C-A230	P73
	24VDC	36.9mA	4C	RER-M4C-D24	P75
	120VAC	9.2mA	4C	RER-M4C-A120	P75
	230VAC	5.5mA	4C	RER-M4C-A230	P75
Type	Connection Method	Applicable Relay Series		Part Number	Page
Relay Socket	PID	RER-S2C-XXXX RER-M2C-XXXX		0149-1T-08ST	P77
	Screw			0149-10-08A	P77
	Cage clamp socket			0149-13-08E	P77
	PID	RER-S4C-XXXX RER-M4C-XXXX		0149-1T-14ST	P77
	Screw			0149-10-14A	P77
	Cage clamp socket			0149-13-14E	P77

General-purpose Relay L Series Overview

Type	Rated Voltage	Rated Current	Contacts	Part Number	Page
Relay	24VDC	36.9mA	2C	RER-L2C-D24	P78
	120VAC	9.2mA	2C	RER-L2C-A120	P78
	230VAC	5.5mA	2C	RER-L2C-A230	P78
	24VDC	69mA	4C	RER-L4C-D24	P80
	120VAC	21.8mA	4C	RER-L4C-A120	P80
	230VAC	10.8mA	4C	RER-L4C-A230	P80
Type	Connection Method	Applicable Relay Series		Part Number	Page
Relay Socket	Screw	RER-L2C-XXXX		0149-20-08A	P82
	Screw	RER-L4C-XXXX		0149-20-14A	P82

Smart Meter Overview

Input Current	Installation	Part Number	Page
0~100 mA	Rail Mounting	0195-1111	P88
5A	Rail Mounting	0195-1151	P89
0~100 mA	Panel Mounting	0195-2111	P90
5A	Panel Mounting	0195-2151	P91
Current Conveyor			
Installation		Part Number	Page
Rail Mounting		0195-3143	P92
Temperature/Humidity/Dew Point Transducer			
Connection Method	Communication	Part Number	Page
Lead wire (4C/4.0Φ)	RS-485 Modbus RTU	0402-1201-XX.X	P93
RJ45 Lead wire connector	RS-485 Modbus RTU	0402-1301-XX.X	P93
Smart Meter Setting Manual			
Part Number			Page
0195-11/0195-21 Series			P163

Power Supply Overview

Input Voltage Range	Rated Output Voltage	Rated Output Power	Part Number	Page
Single phase 85-264 VAC	24VDC	30W	0165N-24V30W1AC	P98
Single phase 85-264 VAC	24VDC	75W	0165N-24V75W1AC	P98
Single phase 85-264 VAC(120-375VDC)	24VDC	120W	0165N-24V120W1AC	P98
Single phase 85-264 VAC(120-375VDC)	24VDC	240W	0165N-24V240W1AC	P98
Single phase 85-264 VAC(120-375VDC)	24VDC	480W	0165N-24V480W1AC	P98
90-264 VAC	24VDC	120W	01651-24V120W1AC	P99
90-264 VAC	24VDC	240W	01651-24V240W1AC	P99
90-264 VAC	24VDC	480W	01651-24V480W1AC	P99
180-264 VAC	24VDC	960W	01652-24V960W1AC	P99
90-264 VAC	48VDC	120W	01651-48V120W1AC	P100
90-264 VAC	48VDC	240W	01651-48V240W1AC	P100
90-264 VAC	48VDC	480W	01651-48V480W1AC	P100
180-264 VAC	48VDC	960W	01652-48V960W1AC	P100
Redundancy Module				
19-29 VDC	24VDC	-	0165R-24VDC	P101
36-60 VDC	48VDC	-	0165R-48VDC	P101

Wire Harness Overview

MDR Cable					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
MDR-MDR	Unshielded/ Shielded	50P/68P/100P	0.5m/1m/2m/3m/5m	WHX55-XXXX	P103
MDR-MDR-MDR	Unshielded	100P-50Px2		WHX55-T0XX	P103
D-Sub Male - D-Sub Female Cable					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
D-sub Female-D-sub Male	Unshielded/ Shielded	37P/44P	0.5m/1m/2m/3m/5m	WHX10-XXXX	P103
Both-End D-sub Male Cable					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
D-sub Male-D-sub Male	Unshielded/ Shielded	37P/44P	0.5m/1m/2m/3m/5m	WHX11-XXXX	P103
FUJI-IDC Cable					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
IDC-FUJI	Unshielded/ Shielded	40P	0.5m/1m/2m/3m/5m	WHX37-XXXX	P104
IDC-IDC Cable					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
IDC-IDC	Unshielded/ Shielded	14P/20P/26P/30P/ 34P/40P	0.5m/1m/2m/3m/5m	WHX33-XXXX	P104
FUJI, Free cable end					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
Loose Wire/FUJI	Unshielded/ Shielded	40P	0.5m/1m/2m/3m/5m	WHXX7-XXXX	P104
IDC, Free cable end					
Wire Harness	Cable	Connecting Poles	Length	Part Number	Page
Loose Wire/IDC	Unshielded/ Shielded	20P/34P/40P	0.5m/1m/2m/3m/5m	WHXX3-XXXX	P104

Safety Relay Overview

Safe Output		Terminals	Power	Reset	Applications	Part Number	Page	
3NO	1NC	Screw connection	24V DC/AC	AUTO / MANUAL	Emergency button, Safety door, Light curtain	RESR-01-3A1B-E	P108	
3NO	1NC	Screw connection		AUTO / MANUAL	Emergency button, Safety door	RESR-01-3A1B	P110	
		Spring connection				RESR-01-3A1B-S	P110	
3NO	1NC	Screw connection		MANUAL (Reset monitoring)		RESR-01-3A1BM	P115	
		Spring connection				RESR-01-3A1BM-S	P115	
3NO	1NC	Screw connection		AUTO / MANUAL	Emergency button, Safety door, Light curtain	RESR-11-3A1B-P	P118	
		Spring connection				RESR-11-3A1B-PS	P118	
3NO	1NC	Screw connection		AUTO / MANUAL	Two-hand button	RESR-21-3A1B	P120	
		Spring connection				RESR-21-3A1B-S	P120	

T2 Surge Protection Device RES2 Series (40kA) Overview

Max. Operating Voltage	Rated Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
385VAC	20kA	40kA	1.7kV	Single phase (TN)	-	RES2-40-2P	P129
					YES	RES2-40-2PF	P129
				3-phase 3-wire(IT) 、3-phase 4-wire(TN-C)	-	RES2-40-3P	P129
					YES	RES2-40-3PF	P129
				3-phase 5-wire (TN-S)	-	RES2-40-4P	P129
					YES	RES2-40-4PF	P129
385VAC (255VAC)	"0kA (40kA)	40kA (80kA)	1.7kV (1.2kV)	Single phase (TT)	-	RES2-40-1PN1	P130
					YES	RES2-40-1PN1F	P130
				3-phase 4-wire (TT)	-	RES2-40-3PN1	P130
					YES	RES2-40-3PN1F	P130
					YES	RES2-40-3PN1F-3	P130

T2 Surge Protection Device RES2 Series (80kA) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
385VAC	40kA	80kA	2kV	Single phase (TN)	-	RES2-80-2P	P131
					YES	RES2-80-2PF	P131
				3-phase 3-wire(IT) 、3-phase 4-wire(TN-C)	-	RES2-80-3P	P131
					YES	RES2-80-3PF	P131
				3-phase 5-wire (TN-S)	-	RES2-80-4P	P131
					YES	RES2-80-4PF	P131
385VAC (255VAC)	40kA (40kA)	80kA (80kA)	2kV (1.2kV)	3-phase 4-wire (TT)	-	RES2-80-3PN1	P132
					YES	RES2-80-3PN1F	P132
					YES	RES2-80-3PN1F-3	P132

T2 Surge Protection Device RES2 Series (DC) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
90VDC	20kA	40kA	600V	24VDC power	-	RES2-40-24	P133
					YES	RES2-40-24F	P133
180VDC			800V	110VDC power	-	RES2-40-110	P133
					YES	RES2-40-110F	P133
320VDC	20kA	40kA	1200V	220VDC power	-	RES2-40-220	P133
					YES	RES2-40-220F	P133
1000VDC			4kV	1000VDC Photovoltaic	-	RES2-40-1000	P134
					YES	RES2-40-1000F	P134
1500VDC			6kV	1500VDC Photovoltaic	-	RES2-40-1500	P134
					YES	RES2-40-1500F	P134

T2 Surge Protection Device RES2 Series (T2 Surge Protection Device RESC2 Series (40kA)) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
385VAC	20kA	40kA	1.7kV	Single phase (TN)	-	RESC2-40-1P	P137
					YES	RESC2-40-1PF	P137
				Single phase (TN)	-	RESC2-40-2P	P137
					YES	RESC2-40-2PF	P137
				3-phase 3-wire(IT) 、3-phase 4-wire(TN-C)	-	RESC2-40-3P	P137
					YES	RESC2-40-3PF	P137
385VAC (255VAC)	20kA (20kA)	40kA (40kA)	1.7kV (1.5kV)	3-phase 5-wire (TN-S)	-	RESC2-40-4P	P138
					YES	RESC2-40-4PF	P138
				Single phase (TT)	-	RESC2-40-1PN1	P138
					YES	RESC2-40-1PN1F	P138
				3-phase 4-wire (TT)	-	RESC2-40-3PN1	P138
					YES	RESC2-40-3PN1F	P138
					YES	RESC2-40-3PN1F-3	P138

T2 Surge Protection Device RES2 Series (80kA) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
385VAC	40kA	80kA	2kV	Single phase (TN)	-	RESC2-80-1P	P139
					YES	RESC2-80-1PF	P139
				Single phase (TN)	-	RESC2-80-2P	P139
					YES	RESC2-80-2PF	P139
				3-phase 3-wire(IT) 、3-phase 4-wire(TN-C)	-	RESC2-80-3P	P139
					YES	RESC2-80-3PF	P139
385VAC (255VAC)	385VAC (255VAC)	385VAC (255VAC)	385VAC (255VAC)	3-phase 5-wire (TN-S)	-	RESC2-80-4P	P140
					YES	RESC2-80-4PF	P140
				Single phase (TT)	-	RESC2-80-1PN1	P140
					YES	RESC2-80-1PN1F	P140
				3-phase 4-wire (TT)	-	RESC2-80-3PN1	P140
					YES	RESC2-80-3PN1F	P140
					YES	RESC2-80-3PN1F-3	P140

T2 Surge Protection Device RESC2 Series (DC) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Remote Signal	Part Number	Page
90VDC	20kA	40kA	600V	24VDC power	-	RESC2-40-24	P141
					YES	RESC2-40-24F	P141
180VDC			800V	110VDC power	-	RESC2-40-110	P141
					YES	RESC2-40-110F	P141
320VDC			1200V	220VDC power	-	RESC2-40-220	P141
					YES	RESC2-40-220F	P141
1200VDC	20kA	40kA	4kV	1200VDC Photovoltaic	-	RESC2-40-1000	P142
					YES	RESC2-40-1000F	P142
1800VDC			6kV	1800VDC Photovoltaic	-	RESC2-40-1500	P142
					YES	RESC2-40-1500F	P142

T3 Network Surge Protector RESW Series Overview

Max. Operating Voltage	Nominal Discharge Current	Voltage Protection Level (Up)	Applicable Network	Bandwidth	Part Number	Page
2kA	2kA	100V/300V	100M Ethernet	100MHz	RESW-02-8DM	P144
10kA	10kA	850V/1kV	1000M Ethernet	/	RESW-10-24DM	P144
3kA	3kA	1kV/1.2kV	100M Ethernet + 220VAC power	/	RESW-03-220AM	P144
2kA	2kA	600V/1kV	1000M Ethernet	500MHz	RESW-02-60DK	P145
2kA	2kA	1.2kV/600V	PoE Network	150MHz	RESW-02-60DP	P145

T3 Surge Protection Device RESC2 Series (DC) Overview

Max. Operating Voltage	Nominal Discharge Current	Max. Discharge Current	Voltage Protection Level	Type of Protection	Part Number	Page
6VDC	800mA	10kA	40V/600V	Thermocouple, RS-485, CAN	RES-05L	P148
				RTD	RES-05L3	P148
32VDC				Single channel, AI, AO, DI, DO	RES-24L	P149
				AI, AO, DI, DO, RS-232	RES-24L3	P149
6VDC	800mA	10kA	L-L:40V/L-G:600V	2-Wire system, Thermocouple, RS-485, CAN	RESC-05L	P150
32VDC				2-Wire system, AI, AO, DI, DO	RESC-24L	P150
6VDC				3-Wire system, RTD	RESC-05L3	P151
32VDC				3-Wire system, AI, AO, DI, DO, RS-232	RESC-24L3	P151

SPD related information	P152~161
Smart Meter Series Setting Manual	P162~169
Accessories	P170~171

Interface Module Compatibility Table

FATEK		Siemens																Allen-Bradley			
PLC	Module	FBs-24YT/J	FBs-24EYT	FBs-32DGI	FBs-24X	FBs-24EX	6ES7322-1BH01-0AA0	6ES7322-1BH10-0AA0	6ES7322-1FH00-0AA0	6ES7321-1BH02-0AA0	6ES7321-1BH10-0AA0	6ES7321-1CH20-0AA0	6ES7321-1FH00-0AA0	6ES7321-7BH01-0AB0	6ES7321-1BL00-0AA0	6ES7323-1BL00-0AA0	1746-OB32	1746-OV32	1746-IB32	1746-IV32	
	0241-C120 (P38)																				
	0241-C130 (P38)																				
	0241-C134 (P38)																				
	0241-C140 (P38)																				
	0241-C120S (P38)																				
	0241-C134S (P38)																				
	0241-C140S (P38)																				
	0241-C120LED (P39)																				
	0241-C134LED (P39)																				
	0241-C140LED (P39)																				
	0241-C237 (P38)																				
	0240-A132 (P43)																				
	0240-A116 (P43)																				
	0240-A216 (P44)																				
	0240-C216 (P44)																				
	0240-C216S (P44)																				

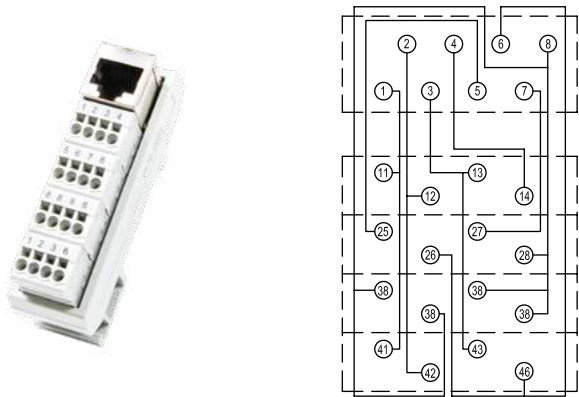
Communication Modules

The essential connection product for industrial digitalization: Communication Modules

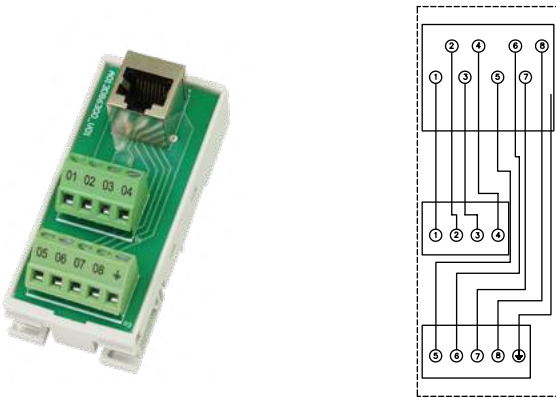
- The communication module product line includes USB to RS232, USB to RS485 and USB extender and signal demultiplexer devices. These can quickly connect and collect digital information from computer systems, sensors and field devices, thus enabling communication of data and related settings for temperature 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

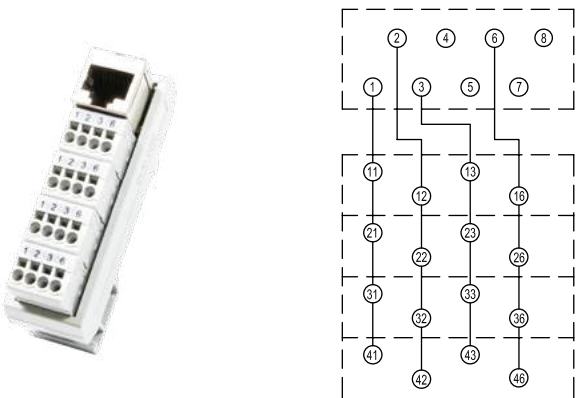
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0170-0305



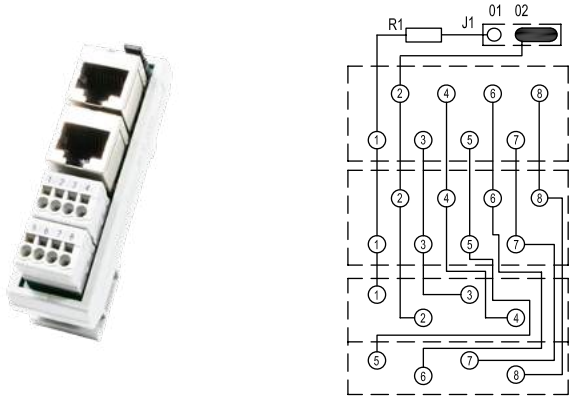
0170-0202



Specification

Number of Connections	16 Pole
Connection Method	Screw
Rated Voltage	24 VDC
Rated Current	1A
Wire Range	26~16 AWG
Input Type	-
Connector	RJ45
Indicator	NO
L x W x H (mm)	35.2 x 77.9 x 32

0170-0203

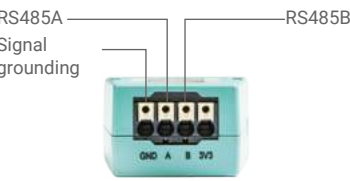


GFTL-RM02

RS485 Communication Interface



Wire Range (IEC/UL)	0.14 ~ 1.5 mm ² / AWG 28 ~ 16
Applicable Ferrules	DN00510D DN00710D



Specification

Number of Connections	16 Pole
Connection Method	PID
Rated Voltage	24 VDC
Rated Current	1A
Wire Range	26~16 AWG
Input Type	-
Connector	RJ45
Indicator	NO
L x W x H (mm)	22.5 x 77.5 x 41.6

GFTL-G001



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

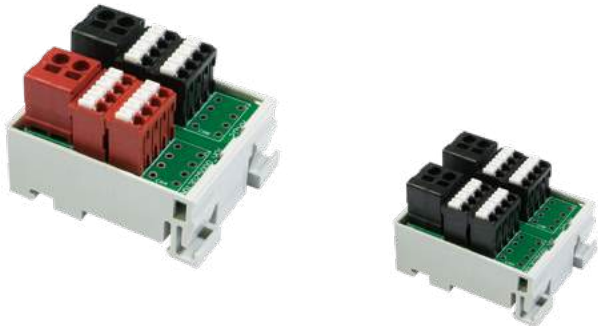
Distribution Modules

Effective power circuit management and arrangement: Distribution Modules

- Dinkle power distribution modules can organize and arrange power circuits using terminal block colors. The intuitive product design reduces human wiring errors and effectively improves the safety and the 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 longterm stable connections and reducing maintenance costs.

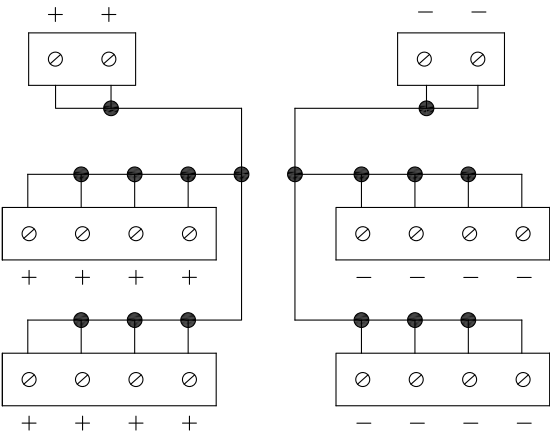
Distribution Modules

0241-P116



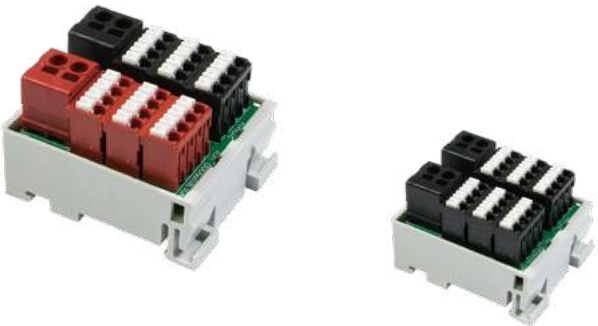
0241-P116A

Wiring Diagram



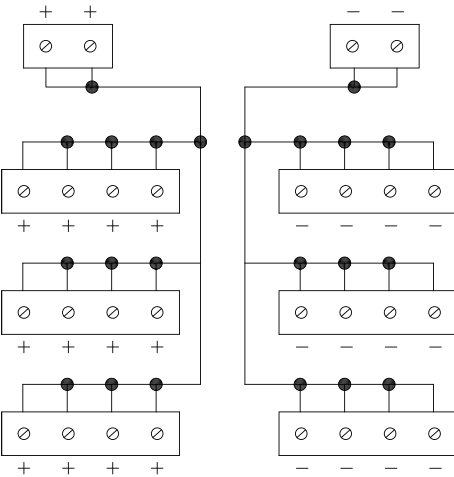
Specification	
Distribution Type	1 input to 8 outputs
Number of Connections	8+8
L x W x H (mm)	38.2 x 47.9 x 30.3
Connection Method	PID
Input	
Input voltage	50 VDC
Max. current of single pole	20A
Total input Current	40A
Wire Range	26~12 AWG
Stripping Length	9~10 mm
Applicable Ferrules	DN00510D DN00710D DN01510D
Output	
Output Voltage	50 VDC
Max. current of single pole	12A(Total output below 40A)
Wire Range	28~16 AWG
Stripping Length	8~9 mm
Applicable Ferrules	DN00508D DN00708D

0241-P124



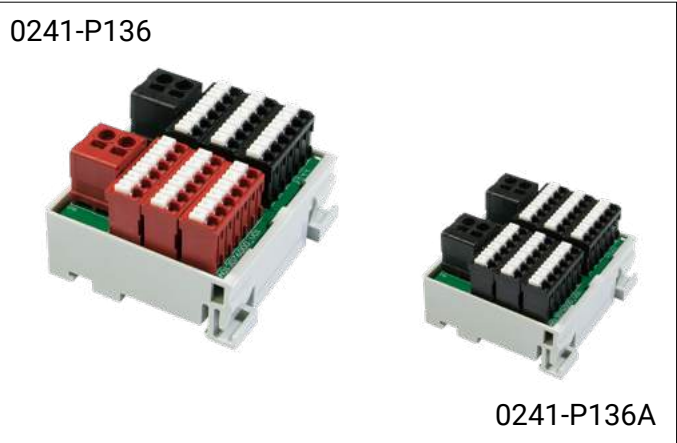
0241-P124A

Wiring Diagram



Specification	
Distribution Type	1 input to 12 outputs
Number of Connections	12+12
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	20A
Total input Current	40A
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	28~16 AWG
Stripping Length	8~9 mm
Applicable Ferrules	DN00508D DN00708D

Distribution Modules



Unmanaged Ethernet Switch



0401-0051



0401-0052



0401-0081



Specification			
Network Connector	5xRJ-45 10/100BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex	5xRJ-45 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex	8xRJ-45 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex
External Power Supply	Redundant Dual DC 12V-56V Power Input	Redundant Dual Power Input 12VDC-56VDC or 18VAC-36VAC	Redundant Dual DC 12V-56V
Power Consumption	2.24W@48 VDC full load	2.76W@48 VDC full load	5W@48 VDC full load
Removable Terminal Block	Provide 2 Redundant power, 4 Pin Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-28 Stranded wire (AWG): 12-30 Torque:5lb-In/0.5Nm Wire Strip length: 7-8mm	Provide 2 Redundant power, 4 Pin Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-28 Stranded wire (AWG): 12-30 Torque:5lb-In/0.5Nm Wire Strip length: 7-8mm	Provide 2 Redundant power , Alarm relay contact ,6 Pin Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-30 Stranded wire(AWG): 12-30 Torque:5lb-In/0.5Nm Wire Strip length: 7-8mm
Operating Temperature	-40°C to +75°C	-40°C to +75°C	-40°C to +75°C
Operating Humidity:	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)
Housing	Rugged Metal, IP30 protection	Rugged Metal, IP30 protection	Rugged Metal, IP30 protection
L x W x H (mm)	103.5 x 32 x 81.5	103.5 x 32 x 81.5	142 x 36.2 x 105
Installation	DIN Rail Mount or Wall Mount	DIN Rail and Wall Mount options included	DIN Rail Mount or Wall Mount
Certified			
Safety	UL 60950-1(MET) LVD62368-1	UL 60950-1(MET) LVD62368-1	UL 60950-1(MET) LVD62368-1
EMC	CE, FCC, EN 55032/35	CE, FCC, EN 55032/35, VCCI	CE, FCC, EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A	FCC Part 15 Subpart B Class A	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV

Unmanaged Ethernet Switch



0401-0080



0401-00S4



Specification			
Network Connector	8xRJ-45 10/100BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex	16 xRJ-45 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex	
External Power Supply	Redundant Dual DC 12V-56V DC Power Input	Redundant Dual DC 12V-56V Power Input	
Power Consumption	3W@48 VDC full load	12.9W@48 VDC full load	
Removable Terminal Block	Provide 2 Redundant power , Alarm relay contact ,6 Pin Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-30 Stranded wire(AWG): 12-30 Torque:5lb-In/0.5Nm Wire Strip length: 7-8mm	Provides 2 Redundant power, Alarm relay contact, 6 Pin Wire range: 0.34mm ² to 2.5mm ² Solid wire (AWG):12-30 Stranded wire (AWG): 12-30 Torque:5lb-In/0.5Nm Wire Strip length: 7-8mm	
Operating Temperature	-40°C to +75°C	-40°C to +75°C	
Operating Humidity:	5% to 95% (Non-condensing)	5% to 95% (Non-condensing)	
Housing	Rugged Metal, IP30 Protection	Rugged Metal, IP30 Protection	
L x W x H (mm)	142 x 36.2 x 105	155 x 48 x 120 mm	
Installation	DIN-Rail and wall mount brackets included	DIN Rail and Wall Mount options included	
Certified			
Safety	UL 60950-1(MET) LVD62368-1	UL60950-1(MET) LVD62368-1	
EMC	CE, FCC, EN 55032/35	CE, FCC, EN 55032/35	
EMI	CISPR 32, FCC Part 15B Class A	CISPR 32, FCC Part 15B Class A	
EMS	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal:2KV	

Unmanaged PoE Ethernet Switch



0401-0151

Unmanaged PoE Ethernet Switch



0401-0284

BSP Ethernet Switch



0401-0584

BSP PoE Ethernet Switch



PoE Ethernet Waterproof Enclosure

Efficient, stable, intelligent monitoring: PoE Waterproof Enclosure

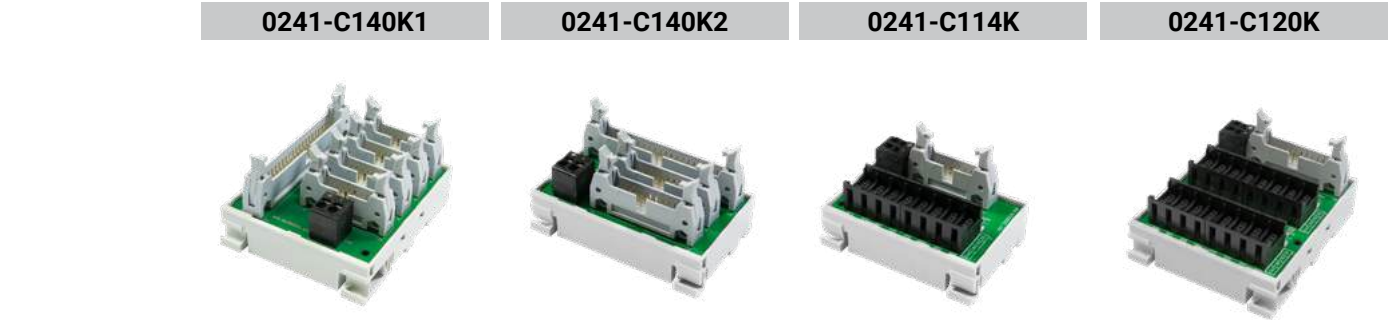
Provided the strongest protection for your outdoor monitoring equipment! The PoE Waterproof Enclosure is designed for use in harsh environments. By combining the

Signal Interface Modules

**Easy wiring, convenient expansion, quick connection for I/O signals within the panel and between devices and controllers:
Signal Interface Modules**

- Challenging the smallest dimension available in the industry, Dinkle signal interface modules provide the highest I/O density 、 the most efficient arrangement, and the most complete specifications for signal transmission modules. Dinkle's professional module design incorporates significant improvements over other brands.
- Dinkle's 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. The terminal blocks and housings in the same color scheme enhance the product's aesthetics and customer value.

Signal Interface Modules Overview



Signal Interface Modules(with LED)

0241-C120LED



Sensor Terminal Blocks

Sensor/Actuator terminal blocks are the ideal option for connecting three or four-conductor sensors and actuators. In addition to standard terminal blocks, versions with LED display are also available. The LED display provides information about the correct connection of the terminal block.

Relay Modules

Fundamental to industrial automation: Relay Modules

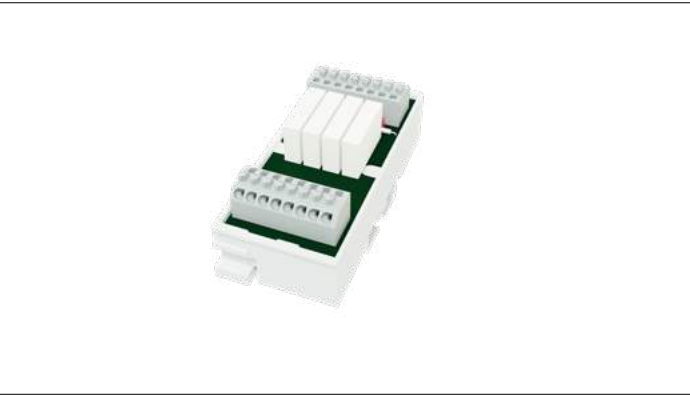
- Using high-quality industrial relays, Dinkle

Micro Relay Modules

- Highly integrated configuration design minimizes the structure and save installation space
- Connected by push-in design terminal block to save wiring time
- Clear marking system easier to identify when wiring
- The max. rated voltage: 250Vac
- The max. rated current: 6A
- Provide IDC interface to reduce working time
- Easy to complete the replacement and installation of the relay

Micro Relay Modules

0240-A104B-U-HF



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 up

P-LUP



The opto relay adopts a compact structure design



The slim opto relay is only 6.2mm in thickness, suitable for the control panels with limited space. The traditional screw-clamping structure provides a more secure and tight wire connection and provides a high reliable wiring method. Dinkle opto relay includes a maximum switching frequency of 10kHz, suitable



The slim relay adopts the PID structure for wiring, enabling fast connection and improving the wiring efficiency. The product supports input voltage at 24V, 11

Compact Relay

With only 16mm base width, it is suitable for various electrical control fields.
Maximize the interior space of the cabinet in the mechanical equipment and system integration projects.

Compact Relay

Base Description



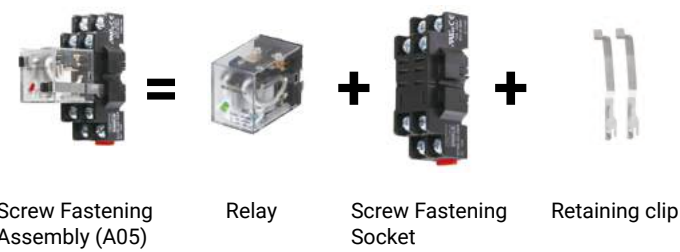
Ordering Information	014
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General-purpose Industrial Relay

Overview

Dinkle RER series industrial relays are ideal for the actual requirements of industrial control applications. It is easy to install and commissioning, stable and reliable in

Ordering Information



Ordering Information



Screw Fastening Assembly (A06) Relay Screw Fastening Socket Retaining clip

Accessories



Basics to Relays

Standards: UL 508, IEC 61810 - 1, GBT 21711.1

Description of contacts parameters

Smart Meter

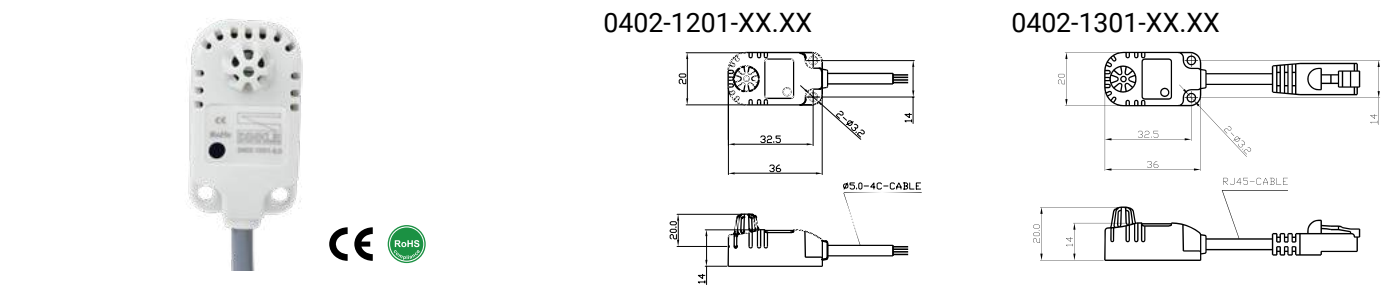
Smart Metering, Smart Management

- **Highly accurate measurements**
Using advanced technology to

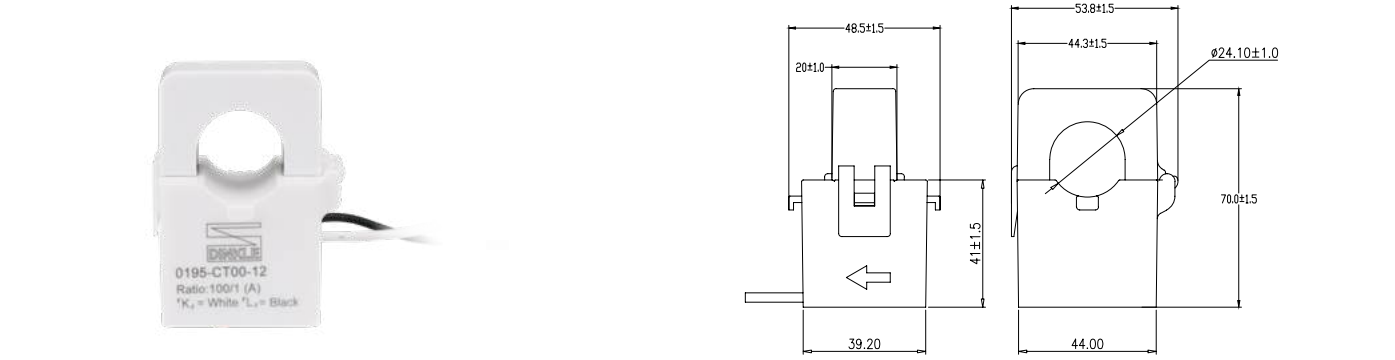
Panel-mounted Smart Meter 0195-2151



Temperature/Humidity/Dew Point Transducer 0402-1201-XX.X / 0402-1301-XX.X



Current Transformer (CT) 0195-CT00-12



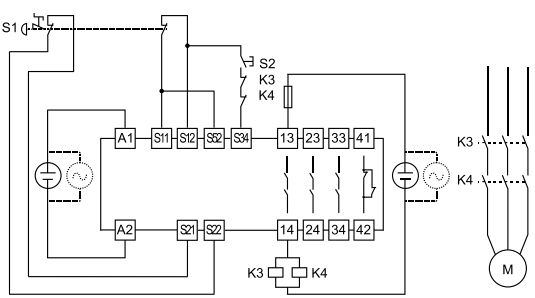
Power Supply

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.

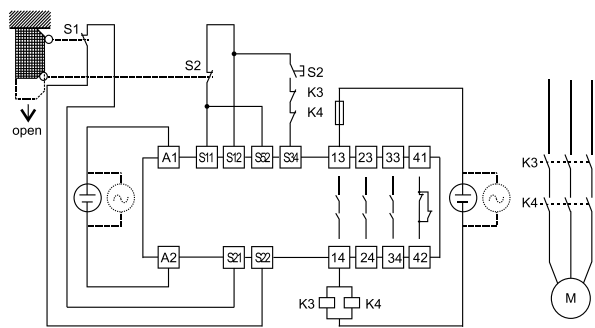
01651/01652 Series (24V Output Voltage, 120W-960W)

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RESR-01-3A1B Wiring Schematics (Emergency stop button)



RESR-01-3A1B Wiring Schematics (Safety door)



RESR-21-3A1B Wiring Schematics (Two-hand button)

