



町洋企業股份有限公司

DINKLE ENTERPRISE CO., LTD.

臺灣新北市五股區五權二路19號 (新北產業園區)
No.19,Wuquan 2nd Road., Wugu District,
New Taipei City 24890, Taiwan
TEL:+886-2-8069-9000 7705-6900
FAX:+886-2-2290-1702 (代表號)
E-mail:service@dinkle.com
Web:www.dinkle.com

町洋國際股份有限公司

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New Taipei City 24890, Taiwan
TEL:+886-2-8069-9000 7705-6900
FAX:+886-2-2290-1702
E-mail:service@dinkle.com
Web:www.dinkle.com

奧迪克國際有限公司 (香港)

OPTIKLE INTERNATIONAL CO., LTD.

香港九龍九龍灣宏冠道6號 鴻力工業中心B座1樓29室
Room 29, 1/F, Block B, Proficient Industrial Center,
No.6 Wang Kwun, Road, Kowloon Bay, Kowloon,
HONG KONG.
TEL:+852-2795-3840 2758-8005
FAX:+852-2753-6919
E-mail:service@dinkle.com
Web:www.dinkle.com

町洋機電(中國)有限公司

DINKLE ELECTRIC MACHINERY(CHINA) CO., LTD.

江蘇省昆山市千燈鎮石浦工商管理區興浦中路258號(215343)
No.258,Xingpu Mid RD,Shipu Business Administration Estate,
Qiandeng Town,Kunshan City,Jiangsu Province,China
TEL:+86-512-5708-8588
FAX:+86-512-5708-8600
E-mail:service@dinkle.com
Web:www.dinkle.com

東莞立洋電機有限公司

LIYANG ELECTRIC MACHINERY(DONGGUAN) CO., LTD.

廣東省東莞市黃江鎮雞鳴崗村金錢嶺一街2號
No.2 1st street Jinqian Ridge,Jiming gang village,
Huangjiang town,Dongguan City,Guangdong Province
TEL:+86-769-8336-4350 8336-4370
FAX:+86-769-8384-8634
E-mail:service@dinkle.com
Web:www.dinkle.com

町洋美國分公司

DINKLE CORPORATION, USA

12613 Executive Drive, Suite 704, Stafford, Texas 77477
TEL:+832-539-4703
Toll-Free:+844-273-1850
FAX:+832-532-7226
E-mail:service@dinkle.com
Web:www.dinkle.com

町洋義大利分公司

Budget Electronics S.r.l

Via Stabilini N° 14,
23864 Malgrate (LC), Italia
TEL:+39/0341176154
E-mail:service@dinkle.com
Web:www.dinkle.com

町洋電氣貿易(上海)有限公司

DINKLE ELECTRIC TRADING (SHANGHAI) CO., LTD.

上海市徐匯區漕溪北路18號上實大廈16層A室
Room A,Floor 16,No.18 North Caoxi Road,Shanghai City
TEL:+86-21-6487-0636 6427-3157
FAX:+86-21-3356-2500
E-mail:service@dinkle.com
Web:www.dinkle.com

北京辦事處

北京市海澱區知春路甲48號盈都大廈C座1單元5B
TEL:+86-10-5873-4338
FAX:+86-10-5873-4337

成都辦事處

四川省成都市天府新區華陽濱河路二段99號4-1-503
TEL:+86-28-8736-5069
FAX:+86-28-8736-5069

瀋陽辦事處

遼寧省瀋陽市和平區南京北街222號鑽石星座B座2113室
TEL:+86-24-3107-8204
FAX:+86-24-2486-9893

西安辦事處

陝西省西安市雁塔區科技路209號新西藍1-1-1705室
TEL:+86-29-8885-8475
FAX:+86-21-3356-2500



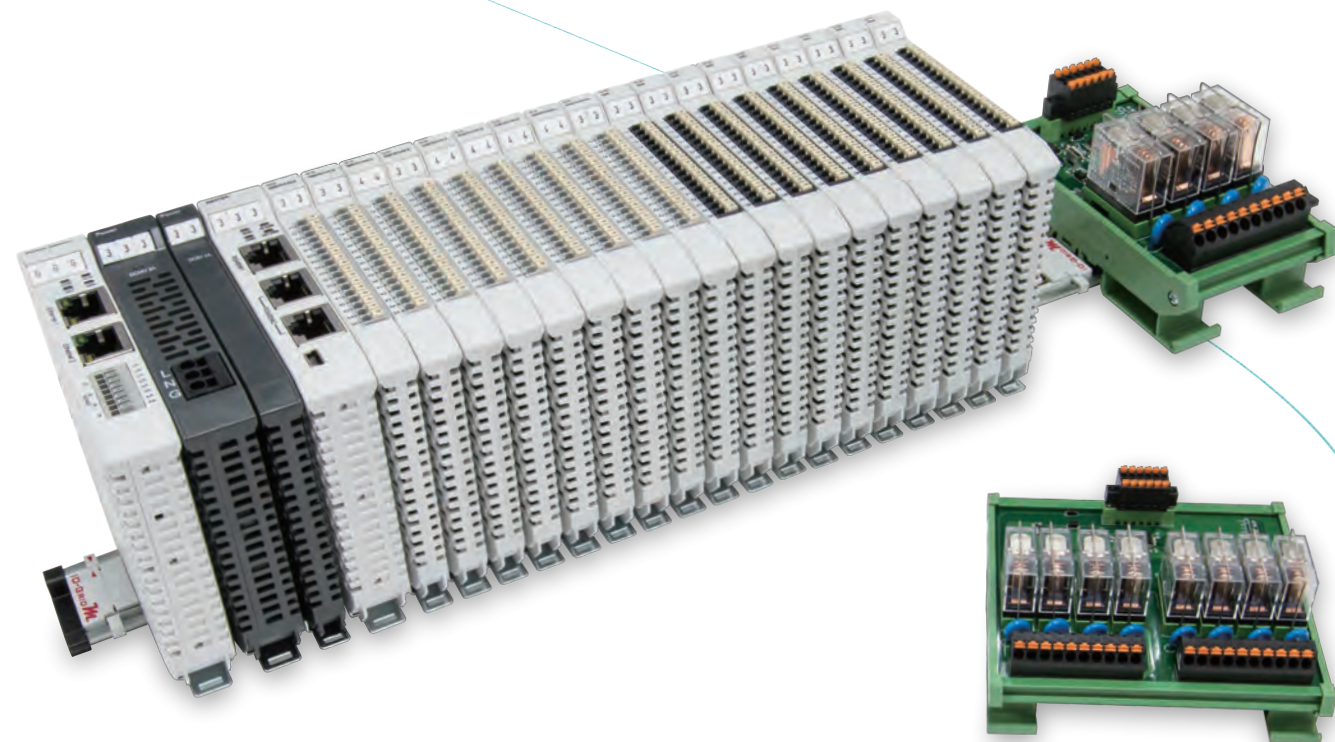
E-mail : service@dinkle.com

Web : www.dinkle.com

Oct./2018

Remote 10

Delight Through Connections



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.

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。



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

IC-02.2

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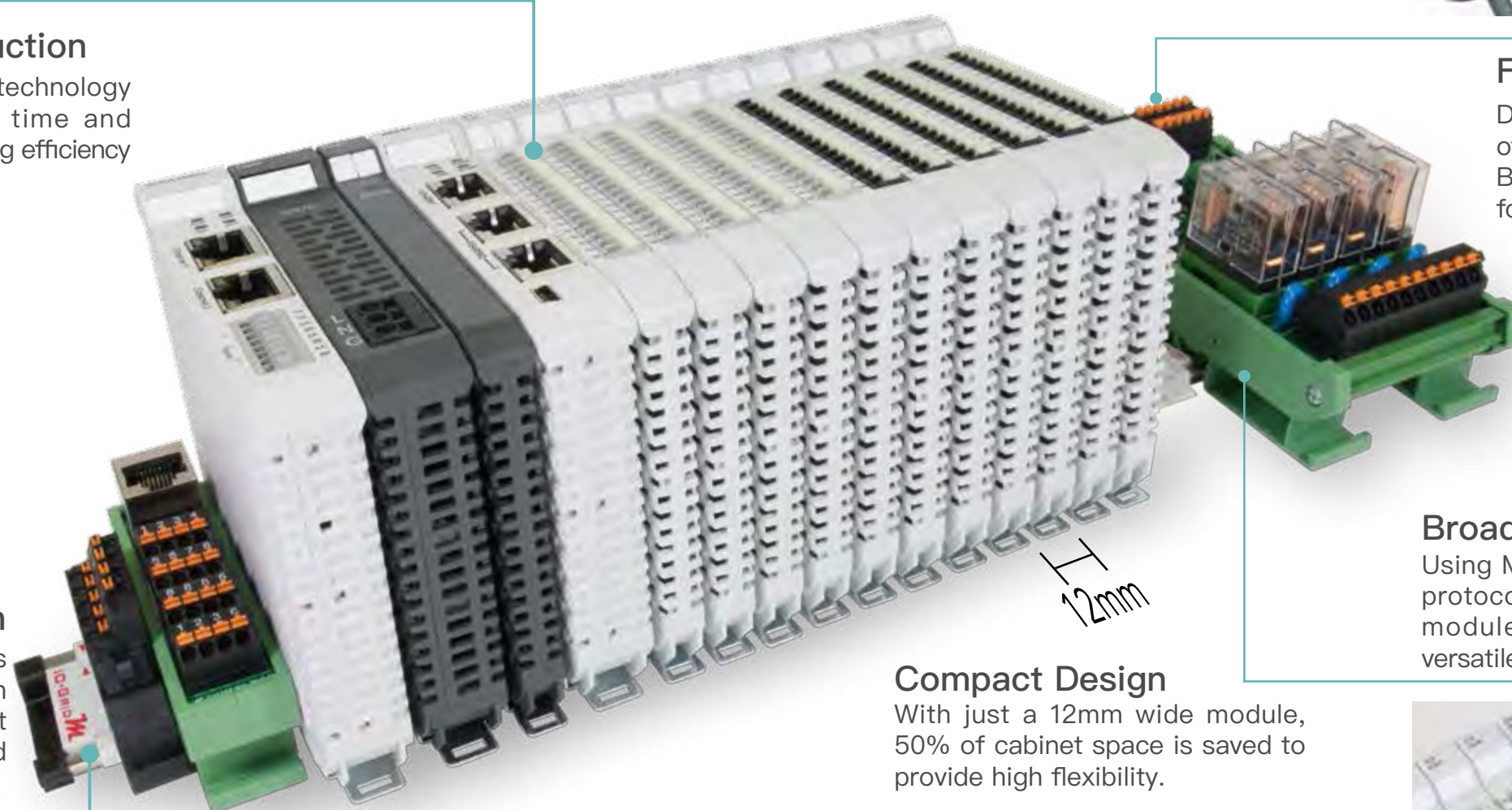
Wiring Time Reduction

PID (Push-In-Design) technology saves 70% of wiring time and minimizes error, increasing efficiency on the field.



Flexible Expandability

Depending on the required number of points, different sizes of Dinkle Bus and other accessories combines for great clarity and easy installation.



Dinkle BUS Patented Design

Our patented design that transmits both power and signal communication saves additional material cost and simplifies the installation and maintenance process.

Broad Module Selection

Using Modbus communication protocol plus a wide range of module selection allows for versatile application in all areas.

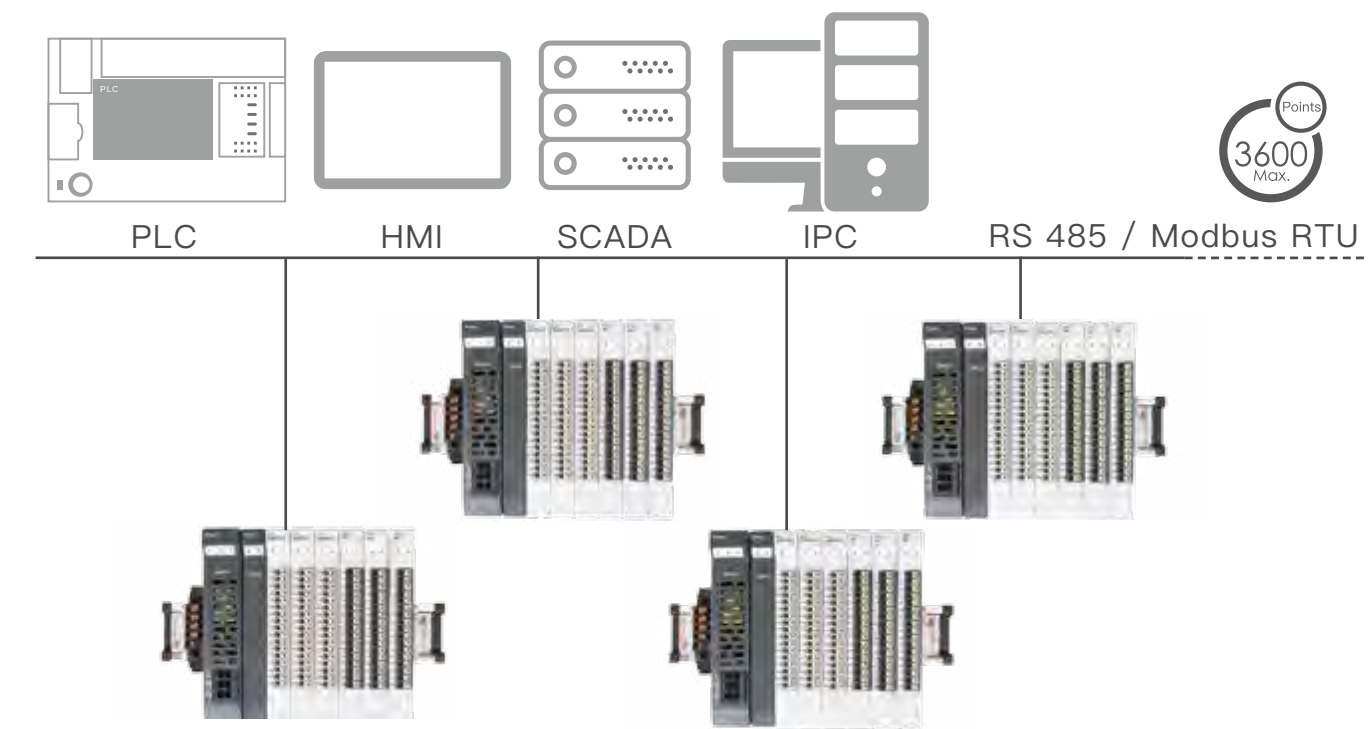
Compact Design

With just a 12mm wide module, 50% of cabinet space is saved to provide high flexibility.



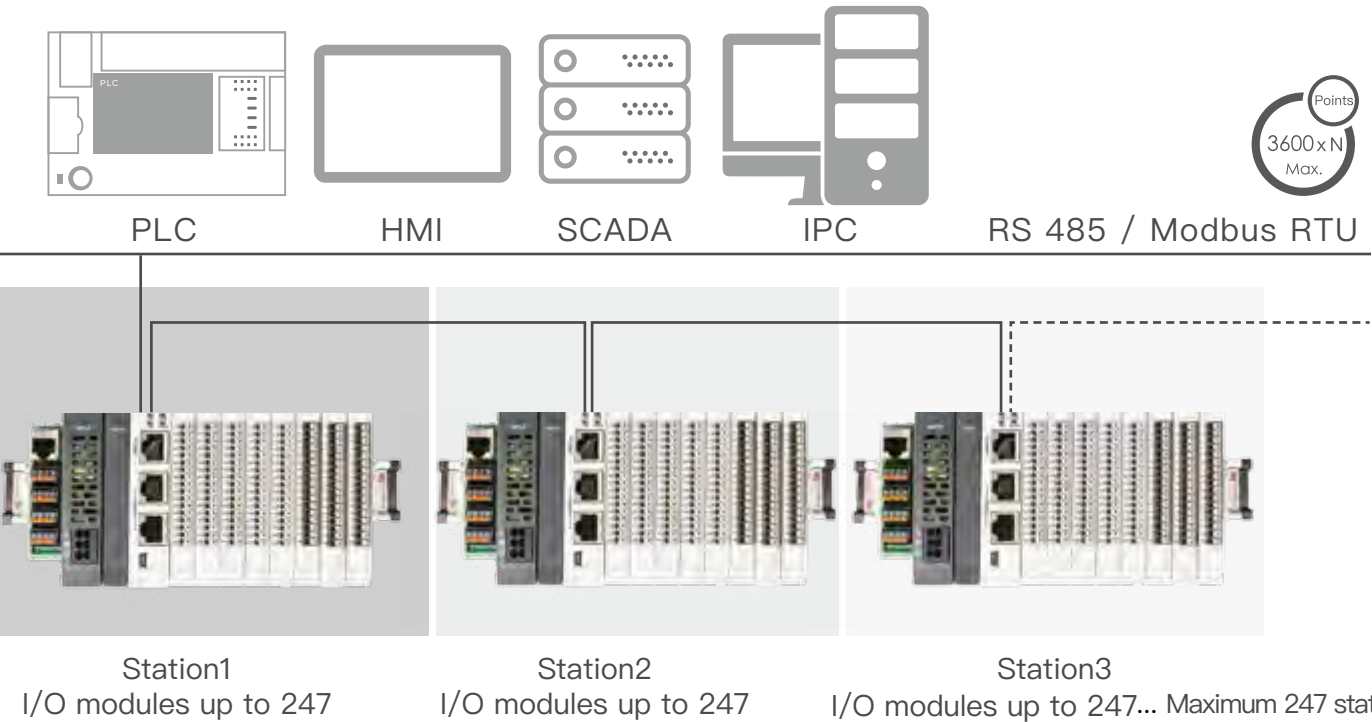
Application Scenario 1

Controller uses standard Modbus RTU to control iO-GRID M (including Digital Input/ Output Module, Relay Module, and Analog Input/ Output Module), which supports a maximum of 247 modules.



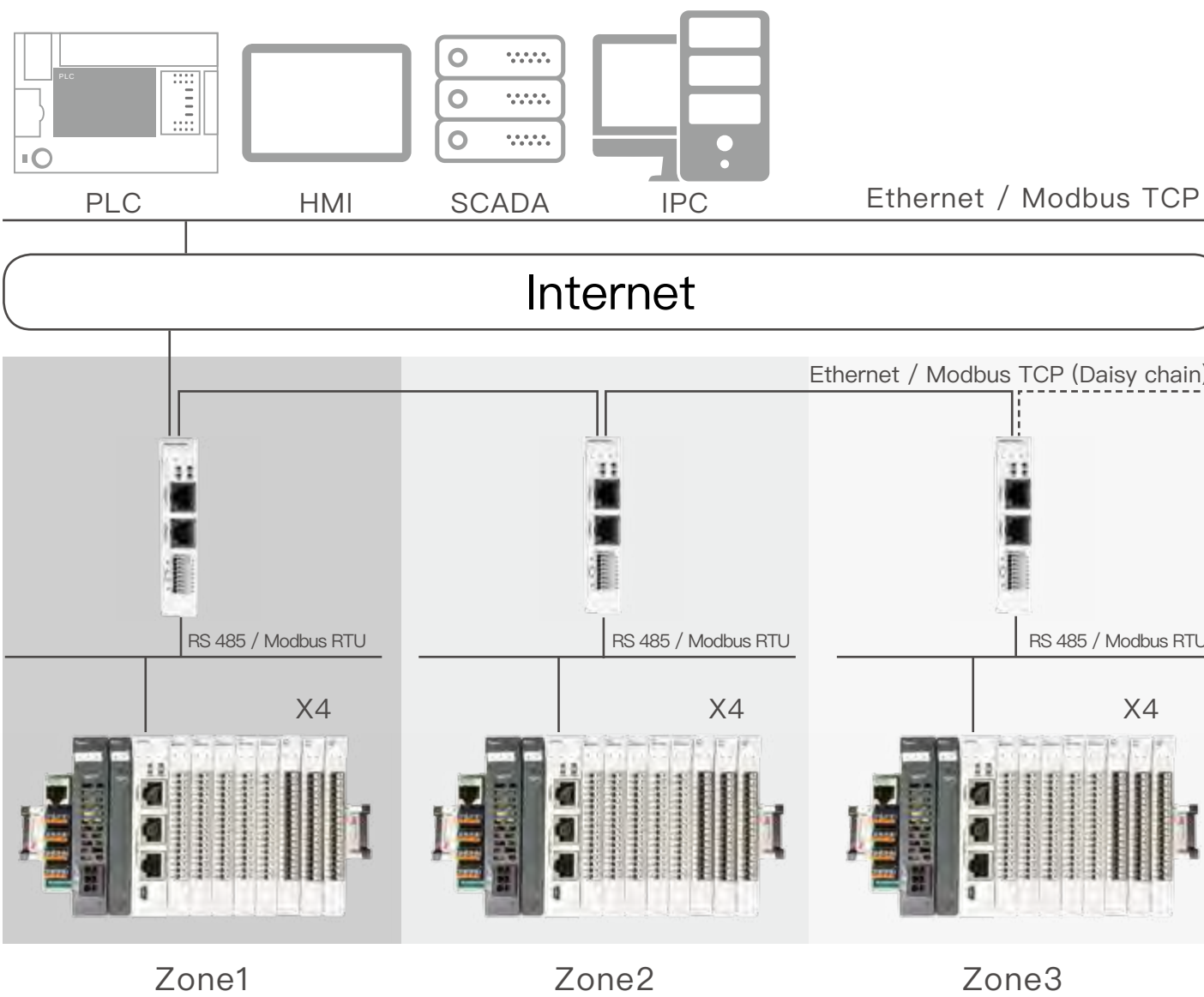
Application Scenario 2

Adding Master Module to Scenario 1 increases both the efficiency of internal communication and the total number of points supported. This expands its flexibility for any application.



Application Scenario 3

Adding Gateway Module to Scenario 2 increases the efficiency of external communication by converting Modbus TCP/RTU. This enhances its adaptability for all types of controllers.



Module type	Page	Application Scenario		
		1	2	3
Gateway Module	P9			√
Master Module	P10		√	√
Digital Input Module	P10	√	√	√
Digital Output Module	P11	√	√	√
Relay Module	P12	√	√	√
Analog Input Module	P13	√	√	√
Analog Output Module	P14	√	√	√
Analog Input/Output Module	P15	√	√	√

Power Supply Module



GFPS-0202



GFPS-0303

Technical Data			
Module Data	GFPS-0202	Module Data	GFPS-0303
Input nominal rating	100~240 VAC	Input nominal rating	24 VDC (±20%)
Inrush current (cold start)	22A / 44A	Max input current	< 1.3A
Rated output power	48W / 2A	Rated output power	20W / 4A
Output voltage	24 VDC ± 1%	Rated output voltage	5 VDC ± 3%
Overload protection	Hiccup overload protection	Overload protection	Latching overload protection
Overload	120%-150% Rated output power	Overload	127%-140% Rated output power
Overvoltage protection	Latching voltage protection	Overvoltage protection	Clamping protection
Overvoltage	32-34 VDC	Overvoltage	Clamping on 6.5 VDC~6.7 VDC
Short circuit protection	As overload protection	Short circuit protection	As overload protection
General Data		General Data	
Width X Depth X Height	20 X 100 X 95 mm	Width X Depth X Height	12 X 100 X 95 mm
Weight	Approx. 128g	Weight	Approx. 70g
Operating temp.	-20°C to + 60°C	Operating temp.	-20°C to + 70°C
Operating humidity	RH 20 to 90%	Operating humidity	RH 20 to 90%
Wiring range	0.2mm ² ~ 2.5mm ² (AWG 26 ~ 12)		
Wire ferrules 	DN00708D DN01008D DN01508D		

Gateway Module



GFGW-RM01N



GFGW-RM02N

Technical Data		
Module Data	GFGW-RM01N	GFGW-RM02N
Module type	Modbus TCP Gateway	Modbus TCP Gateway
Power supply	5 VDC via DINKLE Bus	5 VDC via DINKLE Bus
Current draw	400mA @ 5V	400mA @ 5V
Number of ports	Ethernet*2 / RS485*4	Ethernet*2 / RS485*1
Ethernet interface	RJ45*2	RJ45*2
Serial interface	PID Terminal Blocks	via Dinkle Bus
Protocol	Modbus TCP / RTU	Modbus TCP / RTU
General Data		
Width X Depth X Height	20 X 100 X 95 mm	20 X 100 X 95 mm
Weight	Approx. 80g	Approx. 80g
Operating temp.	0...+55°C	0...+55°C
Storage temp.	-25...+85°C	-25...+85°C
Relative humidity	RH 95%, noncondensing	RH 95%, noncondensing
Wiring range	0.8mm ² ~ 0.32mm ² (AWG 20 ~ 28)	NA
Wire ferrules 	DN00210D DN00310D DN00510D	

Master Module



GFMS-RM01N

Digital Input Module



GFDI-RM01N

Technical Data			
Module Data		Module Data	
GFMS-RM01N		GFDI-RM01N	
Module type	Master RS485	Number of Inputs	16
Max. expansion modules	247	Power supply	5 VDC via DINKLE Bus
Power supply	5 VDC via DINKLE Bus	Current draw	35 mA @ 5V
Current draw	48 mA @ 5V	Voltage category	24 VDC Sink / Source
Interface	RS485 via DINKLE Bus	On-state signal voltage	10...30 V
		Off-state signal voltage	0...3 V
		Interface	RS485 via DINKLE Bus
Communication Data		Communication Data	
Baud rate selectable	1200 to 1.5 Mbps	Protocol	Modbus RTU
Protocol	Modbus RTU	Format	N, 8, 1
Interface connector	RJ45	Baud rate selectable	1200 to 1.5 Mbps
General Data		General Data	
Width X Depth X Height	20 X 100 X 95 mm	Width X Depth X Height	12 X 100 X 95 mm
Weight	Approx. 80g	Weight	Approx. 70g
Operating temp.	0...+55°C	Operating temp.	0...+55°C
Storage temp.	-25...+85°C	Storage temp.	-25...+85°C
Relative humidity	RH 95%, noncondensing	Relative humidity	RH 95%, noncondensing
		Wiring range	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)
		Wire ferrules 	DN00508D DN00708D DN01008D

Digital Output Module



GFDO-RM01N



GFDO-RM02N

Technical Data		
Module Data		Module Data
GFDO-RM01N		GFDO-RM02N
Number of Outputs	16	16
Load voltage	24 VDC (±10%)	24 VDC (±10%)
Power supply	5 VDC via DINKLE Bus	5 VDC via DINKLE Bus
Current draw	135 mA @ 5V	135 mA @ 5V
Load specification	Ohmic, lamp load	Ohmic, lamp load
Sink / Source	Sink	Source
Max. output current	0.5A Per channel	0.5A Per channel
Interface	RS485 via DINKLE Bus	RS485 via DINKLE Bus
Communication Data		
Protocol	Modbus RTU	Modbus RTU
Format	N, 8, 1	N, 8, 1
Baud rate selectable	1200 to 1.5 Mbps	1200 to 1.5 Mbps
General Data		
Width X Depth X Height	12 X 100 X 95 mm	12 X 100 X 95 mm
Weight	Approx. 80g	Approx. 80g
Operating temp.	0...+55°C	0...+55°C
Storage temp.	-25...+85°C	-25...+85°C
Relative humidity	RH 95%, noncondensing	RH 95%, noncondensing
Wiring range	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)
Wire ferrules 	DN00508D DN00708D DN01008D	DN00508D DN00708D DN01008D

Relay Module



GFAR-RM10



GFAR-RM20

Technical Data				
Module Data	GFAR-RM10		GFAR-RM20	
Number of Outputs	8		4	
Power supply	24V DC / 5V DC		24V DC / 5V DC	
Max. switching voltage	250 VAC / 30 VDC		250 VAC / 30 VDC	
Max. switching current	10A Max.		10A Max.	
Operation time	Max 10 ms		Max 10 ms	
Release time	Max 5 ms		Max 5 ms	
Surge protection	Yes		Yes	
Communication Data				
Protocol	Modbus RTU		Modbus RTU	
Format	N, 8, 1		N, 8, 1	
Baud rate selectable	1200 to 1.5 Mbps		1200 to 1.5 Mbps	
General Data				
Width X Depth X Height	134 X 121.8 x 60.5 mm		68 X 121 X 60.5 mm	
Operating temp.	0...+55°C		0...+55°C	
Storage temp.	-25...+85°C		-25...+85°C	
Relative humidity	RH 95%, noncondensing		RH 95%, noncondensing	
Wiring range	0.2mm² ~ 2.5mm² (AWG 24 ~ 12)	0.2mm² ~ 1.5mm² (AWG 24 ~ 16)	0.2mm² ~ 2.5mm² (AWG 24 ~ 12)	0.2mm² ~ 1.5mm² (AWG 24 ~ 16)
Wire ferrules 	DN00508D DN00708D DN01008D DN01510D	DN00508D DN00708D DN01008D	DN00508D DN00708D DN01008D DN01510D	DN00508D DN00708D DN01008D

Analog Input Module



GFAI-RM10



GFAI-RM20

Technical Data		
Module Data	GFAI-RM10	GFAI-RM20
Number of inputs	4	4
Power supply	5V via Dinkle bus	5V via Dinkle bus
Resolution	12 bit	12 bit
Input type	Voltage ±10V	Current 0...20mA
Input	Differential	Differential
Accuracy	±0.02%	±0.02%
Input impedance	210 kΩ, typical	22Ω, typical
Sample rate	500 per second	500 per second
Communication Data		
Protocol	Modbus RTU	Modbus RTU
Format	N, 8, 1	N, 8, 1
Baud rate selectable	1200 to 1.5 Mbps	1200 to 1.5 Mbps
General Data		
Width X Depth X Height	12 X100 X 95 mm	12 X100 X 95 mm
Weight	Approx. 70g	Approx. 70g
Operating temp.	0...+55°C	0...+55°C
Storage temp.	-25...+85°C	-25...+85°C
Relative humidity	RH 95%, noncondensing	RH 95%, noncondensing
Wiring range	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)
Wire ferrules 	DN00508D DN00708D DN01008D	DN00508D DN00708D DN01008D

Analog Output Module



GFAO-RM10



GFAO-RM20

Technical Data		
Module Data	GFAO-RM10	GFAO-RM20
Number of Outputs	4	4
Power supply	5V via Dinkle bus	5V via Dinkle bus
Resolution	12 bit	12 bit
Output Type	Voltage $\pm 10V$	Current 0...20mA
Accuracy	$\pm 0.02\%$	$\pm 0.02\%$
Output impedance	$>2\text{ K}\Omega$	$<500\text{ }\Omega$
Communication Data		
Protocol	Modbus RTU	Modbus RTU
Format	N, 8, 1	N, 8, 1
Baud rate selectable	1200 to 1.5 Mbps	1200 to 1.5 Mbps
General Data		
Width X Depth X Height	12 X100 X 95 mm	12 X100 X 95 mm
Weight	Approx. 70g	Approx. 70g
Operating temp.	0...+55°C	0...+55°C
Storage temp.	-25...+85°C	-25...+85°C
Relative humidity	RH 95%, noncondensing	RH 95%, noncondensing
Wiring range	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)
Wire ferrules 	DN00508D DN00708D DN01008D	DN00508D DN00708D DN01008D

2Analog Input/Analog Output Module



GFAX-RM10



GFAX-RM20

Technical Data		
Module Data	GFAX-RM10	GFAX-RM20
Number of Inputs/Outputs	2input / 2output	2input / 2output
Power supply	5V via Dinkle bus	5V via Dinkle bus
Resolution	12 bit	12 bit
Input / Output Type	Voltage $\pm 10V$	Current 0...20mA
Input	Differential	Differential
Accuracy	$\pm 0.02\%$	$\pm 0.02\%$
Input impedance	210 k Ω , typical	22 Ω , typical
Output impedance	$>2\text{ K}\Omega$	$<500\text{ }\Omega$
Sample rate	500 per second	500 per second
Communication Data		
Protocol	Modbus RTU	Modbus RTU
Format	N, 8, 1	N, 8, 1
Baud rate selectable	1200 to 1.5 Mbps	1200 to 1.5 Mbps
General Data		
Width X Depth X Height	12 X100 X 95 mm	12 X100 X 95 mm
Weight	Approx. 70g	Approx. 70g
Operating temp.	0...+55°C	0...+55°C
Storage temp.	-25...+85°C	-25...+85°C
Relative humidity	RH 95%, noncondensing	RH 95%, noncondensing
Wiring range	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)	0.14mm ² ~ 1.5mm ² (AWG 28 ~ 15)
Wire ferrules 	DN00508D DN00708D DN01008D	DN00508D DN00708D DN01008D

USB Converter



GFTL-RM01

- Hot swap
- iO-GRID M Setter
- USB/ RS-232



GFTL-RM02

- Hot swap
- RS-485 communication
- USB/ RS-485

Wiring range	0.14 ~ 1.5mm ² (AWG 28 ~ 15)
	DN00508D
Wire ferrules	DN00708D
	DN01008D

Interface Module



0170-0101

- Terminal block
- 8 pin RJ45 female connector
- RS-485 Interface



0170-0102

- Terminal block
- Ethernet RJ45 female connector

Power Distribution Module



GFPB-0101

- 24VDC power distribution
- 24VDC via Dinkle Bus

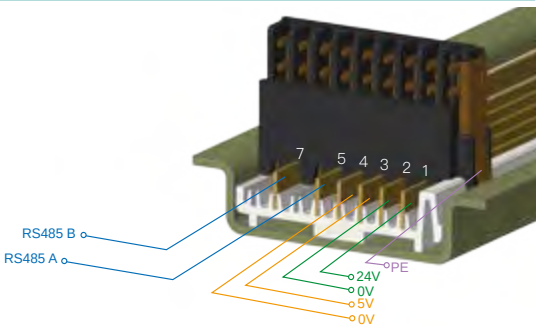
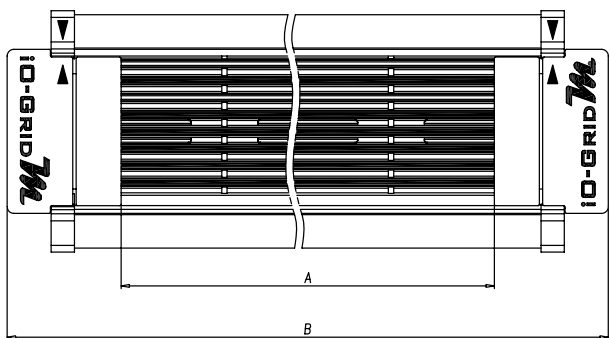
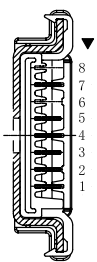


GFPB-0102

- 24VDC power distribution
- External power supply

Standard Bus

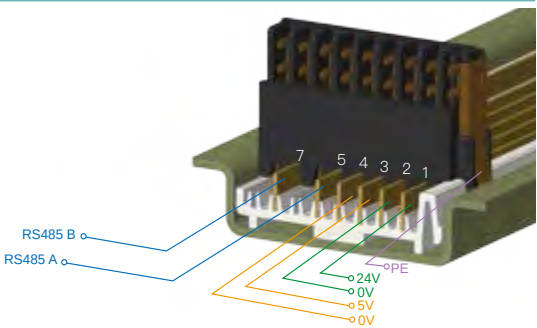
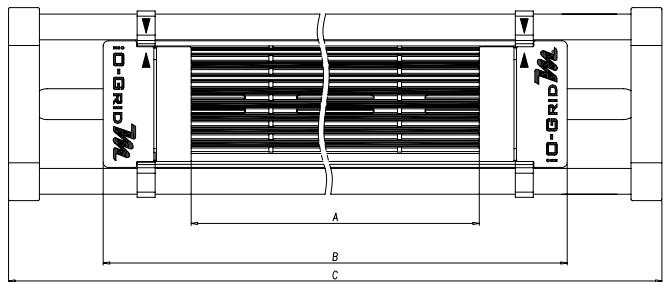
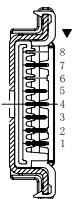
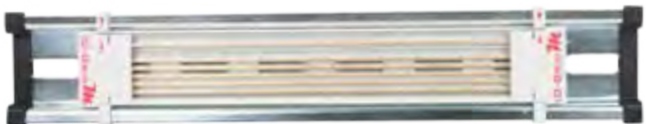
BS-0X123457RM



Part No.	(mm)	
	A	B
BS-01123457RM	121	155.2
BS-02123457RM	171	205.2
BS-03123457RM	221	255.2
BS-04123457RM	271	305.2
BS-05123457RM	331	365.2

Standard Bus

BS-7XX-123457RM



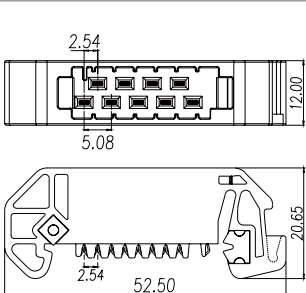
Part No.	(mm)		
	A	B	C
BS-701-123457RM	121	155.2	200
BS-702-123457RM	171	205.2	300
BS-703-123457RM	221	255.2	300
BS-704-123457RM	271	305.2	400
BS-705-123457RM	331	365.2	400

Accessories

Adaptor socket
BS-210



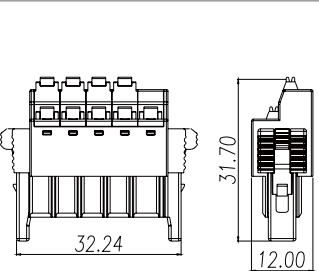
Number of channels	9
Rated voltage	150V
Rated current	8A
Rated withstand voltage	1600V
Applied temperature	-40°C~+105°C



Plug
BS-211



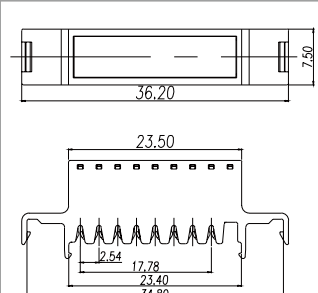
Number of channels	9
Rated voltage	150V
Rated current	8A
Rated withstand voltage	1600V
Applied temperature	-40°C~+105°C



Expansion connector
BS-200



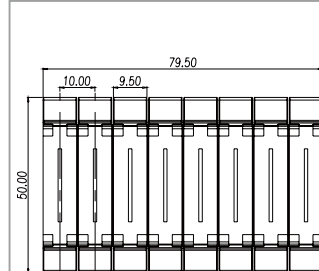
pin length(mm)	--
pin length	8
pitch(mm)	2.54
Rated voltage	12V~150V
Rated current	Max.8A
Rated withstand voltage	1600V
Applied temperature	-40°C~+105°C



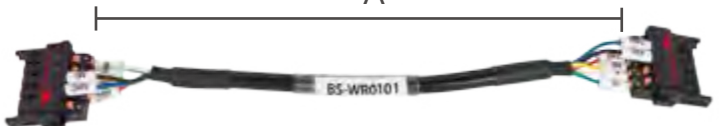
Bus cover
BS-C028



Applied temperature	-40°C~+105°C
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Wire Harness 6+6



BS-WR0101

(24P) 1 ○ — ○ 1 (24P)

(24N) 2 ○ — ○ 2 (24N)

(5P) 3 ○ — ○ 3 (5P)

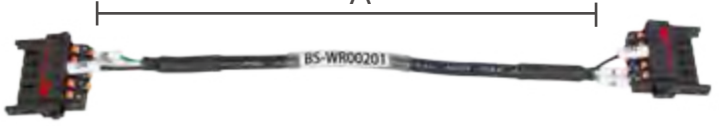
(5N) 4 ○ — ○ 4 (5N)

(1A) 5 ○ — ○ 5 (1A)

(1B) 7 ○ — ○ 7 (1B)

Part No.	A
BS-WR00101	0.25M
BS-WR00102	0.4M

Wire Harness 3+3



BS-WR00201

(5N) 4 ○ — ○ 4 (5N)

(1A) 5 ○ — ○ 5 (1A)

(1B) 7 ○ — ○ 7 (1B)

Part No.	A
BS-WR00201	0.25M
BS-WR00202	0.50M
BS-WR00203	1M
BS-WR00204	1.5M
BS-WR00205	2M

Wire Harness 5+5



BS-WR00301

(24P) 1 ○ — ○ 1 (24P)

(24N) 2 ○ — ○ 2 (24N)

(5N) 4 ○ — ○ 4 (5N)

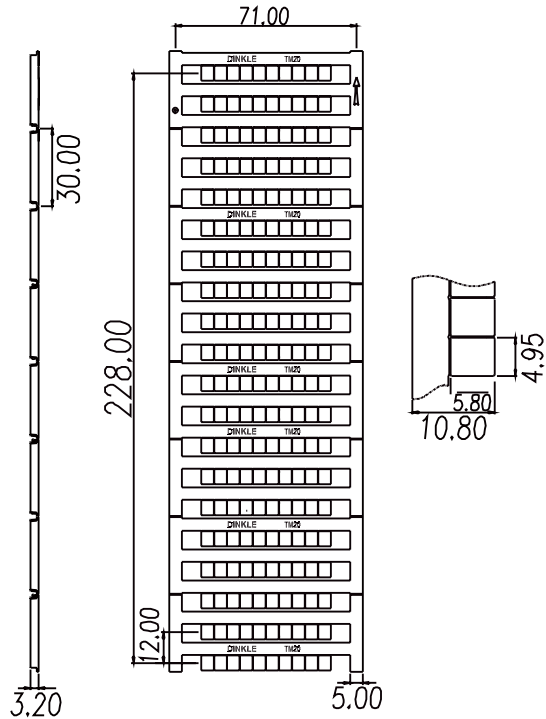
(1A) 5 ○ — ○ 5 (1A)

(1B) 7 ○ — ○ 7 (1B)

Part No.	A
BS-WR00301	0.25M
BS-WR00302	0.5M
BS-WR00303	1M
BS-WR00304	1.5M
BS-WR00305	2M

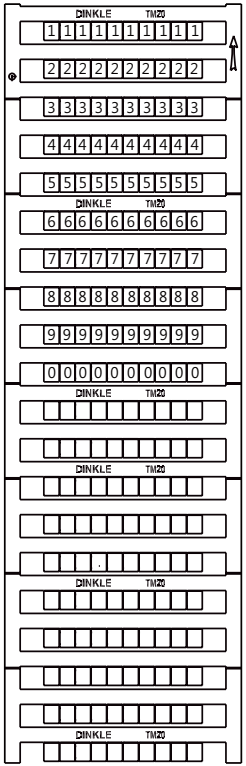
TM20

No Printing



TM20W-S13120

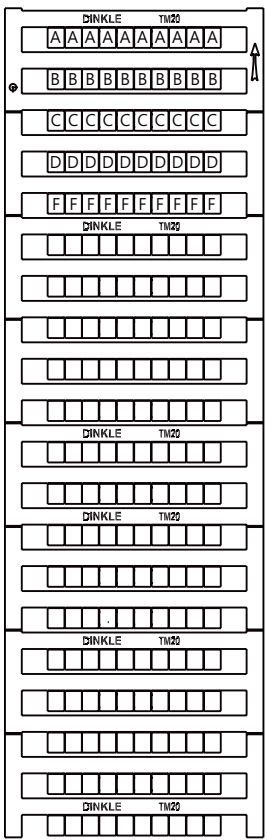
Number Printing



- printings:
- 1 X 20pcs
 - 2 X 20pcs
 - 3 X 20pcs
 - 4 X 20pcs
 - 5 X 20pcs
 - 6 X 20pcs
 - 7 X 20pcs
 - 8 X 20pcs
 - 9 X 20pcs
 - 0 X 20pcs

TM20W-S13121

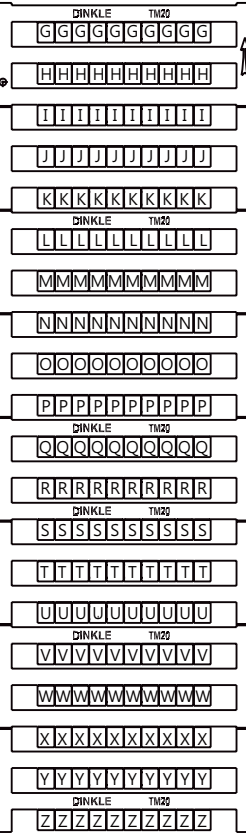
Print alphabets



- printings:
- A X 40pcs
 - B X 40pcs
 - C X 30pcs
 - D X 30pcs
 - E X 30pcs
 - F X 30pcs

TM20W-S13122

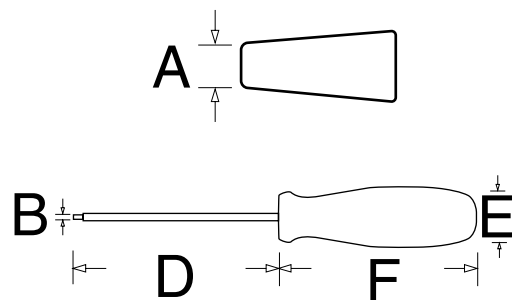
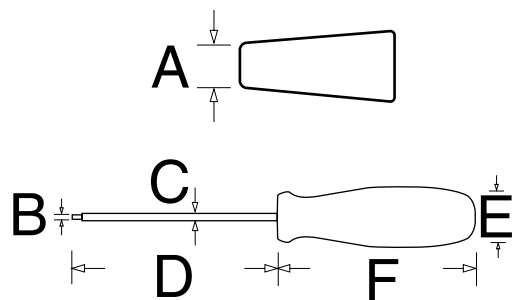
Print alphabets



- printings:
- G X 10pcs
 - H X 10pcs
 - I X 10pcs
 - J X 10pcs
 - K X 10pcs
 - L X 10pcs
 - M X 10pcs
 - N X 10pcs
 - O X 10pcs
 - P X 10pcs
 - Q X 10pcs
 - R X 10pcs
 - S X 10pcs
 - T X 10pcs
 - U X 10pcs
 - V X 10pcs
 - W X 10pcs
 - X X 10pcs
 - Y X 10pcs
 - Z X 10pcs

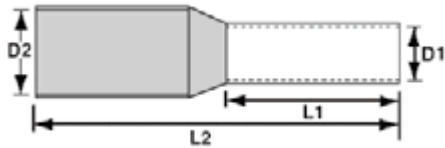
Slotted Screwdriver

Phillips Screwdriver



Technica Data	Slotted screwdriver				Phillips screwdriver			
Part number	DNT11-0102	DNT11-0107	DNT11-0109	DNT11-0111	DNT11-0201	DNT11-0202	DNT11-0205	DNT11-0208
Size	2.5 X 75 mm	3.5 X 100 mm	4.0 X 100 mm	5.5 X 150 mm	#0 X 60	#1 X 80	#2 X 100	#3 X 150
A	2.5	3.5	4.0	5.0	-	-	-	-
B	0.4	0.6	0.8	1.0	-	-	-	-
C	2.5	3.5	4.0	5.0	3.0	5.0	6.0	8.0
D	75	100	100	150	60	80	100	150
E	21.6	21.6	21.6	27.2	21.6	27.7	33	37.5
F	70	70	70	90	70	90	108	122
Package	12	12	12	12	12	12	12	6

Wire Ferrules



Unit:mm²

Part No.	Wire Range		Dimension				DIN Color	Package		Tools
	AWG	mm ²	D1	D2	L1	L2		pcs/bag	bags/box	
DN00206D	24	0.25	0.75	1.9	6	10	Light Blue	1000	10	Note: The wire diameter of the table is determined according to UL486E, IEC998-1 and IEC947-7. Please refer to the table to select suitable ferrules. All recommended ferrules in this catalogue are in accordance with this table.  DNT13-0101 28-7 AWG 0.08-10 mm²
DN00208D					8	12				
DN00306D	22	0.34	0.8	1.9	6	10	Turouise			
DN00308D					8	12				
DN00506D	20	0.5	1	2.6	6	10	White	500	8	
DN00508D					8	14				
DN00510D					10	16				
DN00706D	18	0.75	1.2	2.8	6	12	Grey			
DN00708D					8	14				
DN00710D					10	16				
DN00712D					12	18				
DN01006D		1	1.4	3	6	12	Red		6	
DN01008D					8	14				
DN01010D					10	16				
DN01012D					12	18				
DN01508D	16	1.5	1.7	3.5	8	14	Black		500	
DN01510D					10	16				
DN01512D					12	18				
DN01518D					18	24				
DN02508D	14	2.5	2.2	4.2	8	14	Blue	3		
DN02510D					10	16				
DN02512D					12	18				
DN02518D					18	24				
DN04010D	12	4	2.8	4.8	10	17	Grey	500		2
DN04012D					12	20				
DN04018D					18	26				
DN06012D	10	6	3.5	6.3	12	20	Yellow			1
DN06018D					18	26				
DN10012D	7	10	4.5	7.6	12	22	Red		200	1
DN10018D					18	28				
DN16012D	5	16	5.8	8.8	12	22	Blue			
DN16018D					18	28				
DN25016D	4	25	7.3	11.2	16	30	Yellow		100	1
DN25018D					18	30				
DN25022D					22	36				
DN35016D	2	35	8.3	12.7	16	30	Red			
DN35018D					18	32				
DN35025D					25	39				
DN50020D	1	50	10.3	15	20	36	Blue	50		
DN50025D					25	40				
DN70021D	2/0	70	13.5	16	21	37	Yellow	50		1
DN95025D	3/0	95	14.7	18	25	44	Red			
DN96027D	4/0	120	16.7	20	27	48	Blue	20		
DN97032D	250kcmil	150	19.5	23	32	58	Yellow			

