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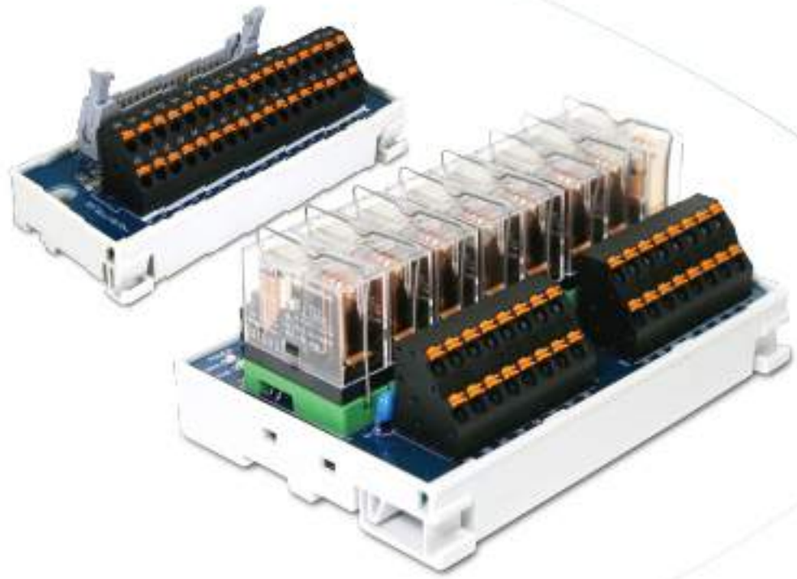
Sep./2018

Interface Module

Delight Through Connections



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

DC-29.1

CE RoHS

Dinkle · Delight through connections

Dinkle is one of the world leading manufacturers of terminal blocks and committed to meet the highest application requirements of automation industry. The company has a size of about 3,000 employees with its headquarters in New Taipei City, Taiwan, and operates its businesses in over 40 countries.

The business was established in Taiwan in July 22nd, 1983, and it started from manufacturing barrier type terminal blocks. The first production facilities in China were set up in 1995, with 15 sales offices in the Greater China region. Dinkle facilities include an R&D center for terminal blocks in Jiangsu, OEM product development center in Kun-Shan and DongGuan City, an R&D center for electronics in Taipei, a CNAS certified laboratory in provinces of Jiangsu and Guangdong, and two main production facilities in Jiangsu.Dinkle devotes itself to connectors and their related industry, and cooperates with dozens of licensed sales distributors and academic institutions, to provide a wide range of world-class products and solutions.

Terminal blocks are widely used in six main industrial applications including Production Automation, Process Automation, Power Automation, Railway Transportation, New Energy and Equipment Manufacturing. All of our production facilities are granted ISO9001 quality control system certification and ISO 14001 environmental management system certification, and Dinkle's products have safety certifications include UL, CUL, CSA, VDE, GB. All products and materials used meet EU environmental policy of RoHS Directive and REACH regulation.

With more than 30 years of production expertise, Dinkle has the knowledge to make your business successful. With the comprehensive industry knowledge and technical skills, Dinkle aims to offer its customers the optimal product solution for its value. No matter what type of requirement it may be, Dinkle will have the ideal answer for you.

Product Features

Relay module product series are compact and designed with integrated functions. It saves the layout space in a control cabinet

- The newly design one piece PCB carrier provides a solid structure.
- One piece carrier housing requires no assembly which saves time.
- Relay modules in one piece housing are installed with Omron relays.
- PID (Push-in design) connection method improves the wire installation efficiency and reduces the wiring costs.
- Relay module offers various kinds of convenient interface-mounting options and meets a variety of signal distribution needs.

Industry Application

High durability, reliable quality, suitable for industrial control applications

All the connectors used on the module are compliant with the industrial standard, fulfilling the requirements in the automation control field. The wide range of interface module selections helps to support various applications in different industries quickly and flexibly. Integrating appropriate components to achieve the result of saving manpower and working time, as well as improving efficiency and reducing costs.

Robotic Arm

CNC

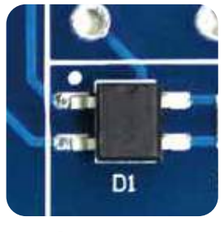
Electrical cabinet

Customize Service

Complete functionality,high reliability,easy installation

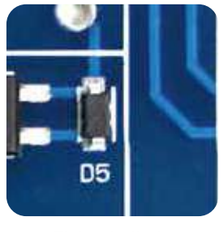
Dinkle provides a variety of integrated functions and innovative solutions according to customers' specific requirement and specifications. The customized relay and interface modules are widely appreciated by customers with our fast and flexible service, and systematic customized development process, which helps to achieve product realization for customers.

PID
terminal blocks



Support input
NPN/PNP

Varistors



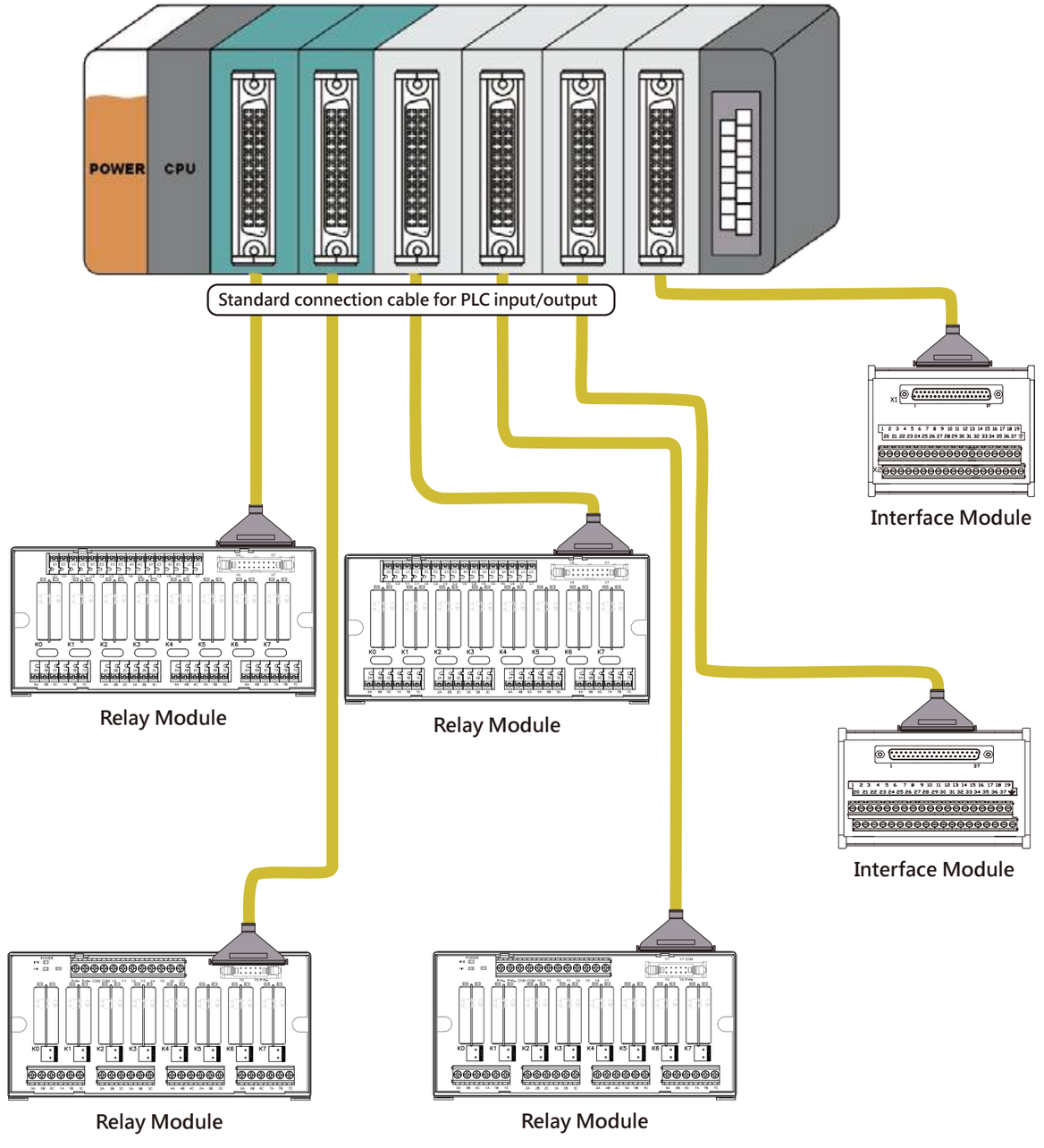
Flyback diode

Omron
relays

System Layout

Solution to wire-saving

Using Dinkle relay and interface module on various control units to achieve cost, time and space saving, as well as avoiding incorrect wiring assembly. It is the ideal solution for control panel integration.



Relay Module category list

Connection methods	Input (Rated Voltage 24VDC)		Output					Remark	Part number	Page
	Input common	Connector type	Rated Current	Number of relays	surge protection	COM with Jumper	Contact type			
PID	COM(Support NPN/PNP)		10A	4	YES	YES	1C	One piece carrier	0240-76A1	9
PID	COM Independent		10A	4	YES	YES	1C	One piece carrier	0240-86A1	9
PID	COM(Support NPN/PNP)	IDC 10-pin	10A	8	YES	YES	1C	One piece carrier	0240-96B1	10
PID	COM Independent		10A	8	YES	YES	1C	One piece carrier	0240-86B1	10
Screw	COM(Support NPN/PNP)		10A	4	YES	YES	1C	One piece carrier	0240-76A0	11
Screw	COM Independent		10A	4	YES	YES	1C	One piece carrier	0240-86A0	11
Screw	COM Independent		10A	4	NO	NO	2C	One piece carrier	0240-8220	12
Screw	COM(Support NPN/PNP)	IDC 10-pin	10A	8	YES	YES	1C	One piece carrier	0240-96B0	12
Screw	COM Independent		10A	8	YES	YES	1C	One piece carrier	0240-86B0	13
Screw	COM(Support NPN/PNP)		10A	6	YES	NO	1C	Assembled carrier	RM024D-1C06C-2AM	14
Screw	COM(Support NPN/PNP)	IDC 14-pin	10A	12	YES	NO	1C	Assembled carrier	RM024D-1C12C-6AM	15
Screw	COM(Support NPN/PNP)	IDC 20-pin	10A	16	YES	NO	1C	Assembled carrier	RM024D-1C16C-6AM	15
Screw	COM(Support NPN/PNP)		10A	6	NO	YES	1C	Assembled carrier	RM024D-1C06C-2BM	16
Screw	COM(Support NPN/PNP)	IDC 14-pin	10A	12	NO	YES	1C	Assembled carrier	RM024D-1C12C-6BM	16
Screw	COM(Support NPN/PNP)	IDC 20-pin	10A	16	NO	YES	1C	Assembled carrier	RM024D-1C16C-6BM	17

Interface Module category list

Connection methods	Compatible Controller	Connector type	Indicator light	Remark	Part number	Page
PID	KEYENCE (Input type)	IDC 20-pin	YES	One piece carrier	0241-3C31	19
PID	KEYENCE (Output type)	IDC 20-pin	YES	One piece carrier	0241-3D31	19
PID	Universal type	IDC 20-pin	NO	One piece carrier	0241-3E45	20
PID	MISUBISHI(QY82P)	Fujitsu 40-pin	YES	One piece carrier	0241-2A61	20
PID	MISUBISHI Q type(QY82P excluded)	Fujitsu 40-pin	YES	One piece carrier	0241-2B61	21
PID	KEYENCE (Input type)	IDC 34-pin	YES	One piece carrier	0241-3C61	21
PID	KEYENCE (Output type)	IDC 34-pin	YES	One piece carrier	0241-3D61	22
PID	Universal type	IDC 34-pin	NO	One piece carrier	0241-3E75	22
PID	Universal type	Fujitsu 40-pin	NO	One piece carrier	0241-2E85	23
PID	Universal type	IDC 40-pin	NO	One piece carrier	0241-3E85	23
Screw	KEYENCE (Input type)	IDC 20-pin	YES	One piece carrier	0241-3C30	24
Screw	KEYENCE (Output type)	IDC 20-pin	YES	One piece carrier	0241-3D30	24
Screw	Universal type	IDC 20-pin	NO	One piece carrier	0241-3E44	25
Screw	MISUBISHI(QY82P)	Fujitsu 40-pin	YES	One piece carrier	0241-2A60	25
Screw	MISUBISHI Q type(QY82P excluded)	Fujitsu 40-pin	YES	One piece carrier	0241-2B60	26
Screw	KEYENCE (Input type)	IDC 34-pin	YES	One piece carrier	0241-3C60	26
Screw	KEYENCE (Output type)	IDC 34-pin	YES	One piece carrier	0241-3D60	27
Screw	Universal type	IDC 34-pin	NO	One piece carrier	0241-3E74	27
Screw	Universal type	Fujitsu 40-pin	NO	One piece carrier	0241-2E84	28
Screw	Universal type	IDC 40-pin	NO	One piece carrier	0241-3E84	28
Screw	Universal type	D-SUB (male)	NO	Assembled carrier	DMXX-AP01CL	29
Screw	Universal type	D-SUB (female)	NO	Assembled carrier	DMXX-AP02CL	30
Screw	Universal type	HONDA connector	NO	Assembled carrier	HDMXX-HD01CL	30
Screw	Universal type	MDR	NO	Assembled carrier	MMXX-3M01CL	31
Screw	Universal type	SCSI	NO	Assembled carrier	MMXX-SM01CL	31
Screw	Universal type	IDC 14-pin，mini clamp connector socket	NO	Assembled carrier	HM1408-3M01CL	32
Screw	Universal type	IDC 20-pin，mini clamp connector socket	NO	Assembled carrier	HM2016-3M01CL	32
Screw	Universal type	Input IDC 40-pin：Output IDC 14-pin 4 sets	NO	Assembled carrier	HM4014-3M01CL	33
Screw	Universal type	Input IDC 40-pin：Output IDC 20-pin 2 sets	NO	Assembled carrier	HM4020-3M01CL	33

KEYENCE model category list

KEYENCE PLC KV TYPE applicable interface module

KV-C32XC、KV-C64XC
KV-C32XTD、KV-32EXT
KV-C32TC、KV-C32TD、KV-C32TCP
KV-C64TC、KV-C64TD、KV-C64TCP
KV-C32XTD、KV-32EXT

WHH34/XX
IDC 34-pin cable

0241-3C60 P26

0241-3C61 P21

0241-3D60 P27

0241-3D61 P22

0241-3E74 P27

0241-3E75 P22

PLC KV-CPU applicable interface module

KV-5500、KV-5000
KV-3000

WHH40/XX
IDC 40-pin cable

0241-3E84 P28

0241-3E85 P23

KEYENCE PLC KV-NANO applicable interface module

KV-NC16ET、KV-NC16ETP
KV-NC16EX

WHH20/XX
IDC 20-pin cable

0241-3C30 P24

0241-3C31 P19

0241-3D30 P24

0241-3D31 P19

0241-3E44 P25

0241-3E45 P20

KEYENCE PLC KV-NANO applicable interface module

KV-NC32EX
KV-NC32ET、KV-NC32ETP

WHH34/XX
IDC 34-pin cable

0241-3C60 P26

0241-3C61 P21

0241-3D60 P27

0241-3D61 P22

0241-3E74 P27

0241-3E75 P22

MITSUBISHI MOTORS model category list

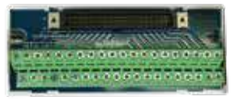
MITSUBISHI PLC TYPE applicable interface module

QY82P

WHF40/XX
Fuji 40-pin cable

0241-2A60 P25

0241-2A61 P20



0241-2E84 P28

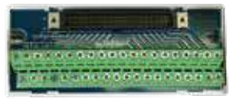
0241-2E85 P23

QH42P、QX41、QX41-S1
QX41Y41P、QX42、QX42-S1
QY41P、QY42P、QY71、QX72
QX72、QX82、QX82-S1

WHF40/XX
Fuji 40-pin cable

0241-2B60 P26

0241-2B61 P21

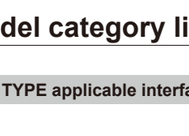


0241-2E84 P28

0241-2E85 P23

MITSUBISHI PLC FX TYPE applicable interface module

Pin to pin



FX3U、FX5U

0240-86A0 4 Relays P11

0240-86A1 4 Relays P9

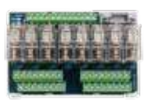
0240-76A0 4 Relays P11

0240-76A1 4 Relays P9

0240-8220 4 Relays P12

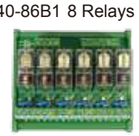
0240-96B1 8 Relays P10

0240-86B1 8 Relays P10



0240-96B0 8 Relays P12

0240-86B0 8 Relays P13



RM024D-1C06C-2AM 6 Relays P14

RM024D-1C12C-6AM 12 Relays P15

RM024D-1C16C-6AM 16 Relays P15

RM024D-1C06C-2BM 6 Relays P16

RM024D-1C12C-6BM 12 Relays P16

RM024D-1C16C-6BM 16 Relays P17

SIEMENS FATEK model category list

SIEMENS PLC S7-1200 TYPE applicable interface module

Pin to pin

S7-1200

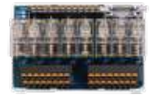
0240-86A0 4 Relays P11

0240-86A1 4 Relays P9

0240-76A0 4 Relays P11

0240-76A1 4 Relays P9

0240-8220 4 Relays P12



0240-96B1 8 Relays P10

0240-86B1 8 Relays P10

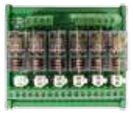
0240-96B0 8 Relays P12

0240-86B0 8 Relays P13

RM024D-1C06C-2AM 6 Relays P14

RM024D-1C12C-6AM 12 Relays P15

RM024D-1C16C-6AM 16 Relays P15



RM024D-1C06C-2BM 6 Relays P16

RM024D-1C12C-6BM 12 Relays P16

RM024D-1C16C-6BM 16 Relays P17

FATEK PLC FBs TYPE applicable interface module

Pin to pin

FBs

0240-86A0 4 Relays P11

0240-86A1 4 Relays P9

0240-76A0 4 Relays P11

0240-76A1 4 Relays P9

0240-8220 4 Relays P12

0240-96B1 8 Relays P10

0240-86B1 8 Relays P10

0240-96B0 8 Relays P12

0240-86B0 8 Relays P13

RM024D-1C06C-2AM 6 Relays P14

RM024D-1C12C-6AM 12 Relays P15

RM024D-1C16C-6AM 16 Relays P15

RM024D-1C06C-2BM 6 Relays P16

RM024D-1C12C-6BM 12 Relays P16

RM024D-1C16C-6BM 16 Relays P17

Relay Module

Relay module product series comply with requirements of industrial standard and support both NPN and PNP input types. It offers a variety of connection types, including push-in connection and screw connection terminal blocks, IDC, and Fujitsu connector. Wire harness is also available for quick onsite installation.

Definition of P/N for Relay Module in one piece carrier

0240-XXXX

① ② ③ ④ ⑤

① Series code (for normal Relay Module)

② Input connector type

0 = D-SUB	A = Terminal Block & IDC (No COM)
1 = D-SUB	B = D-SUB
2 = FUJITSU	C = D-SUB
3 = IDC	
4 = HONDA	
5 = SCSI	
6 = MDR	
7 = Terminal Block (COM)	
8 = Terminal Block (No COM)	
9 = Terminal Block & IDC (COM)	

③ Relay contact type & with surge protection unit

0 = 1A, No	5 = 1A, Varistor
1 = 1C, No	6 = 1C, Varistor
2 = 2C, No	7 = 2C, Varistor
3 = 3C, No	8 = 3C, Varistor
4 = 4C, No	9 = 4C, Varistor

④ Number of relay & Common

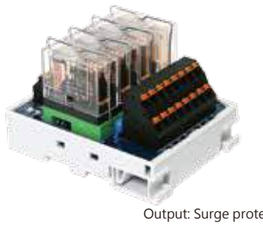
0 = 1R, independent		
1 = 2R, independent		
2 = 4R, independent	6 = 4R, COM	A = 4R, COM with jumper
3 = 8R, independent	7 = 8R, COM	B = 8R, COM with jumper
4 = 16R, independent	8 = 16R, COM	C = 16R, COM with jumper
5 = 32R, independent	9 = 32R, COM	D = 32R , COM with jumper

⑤ Number of relay & Common

0 = Screw	(LED)	4 = Screw	(No LED)
1 = Spring clamp	(LED)	5 = Spring clamp	(No LED)
2 = Barrier	(LED)	6 = Barrier	(No LED)

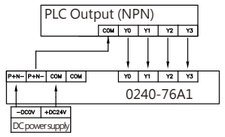
Relay Module

0240-76A1

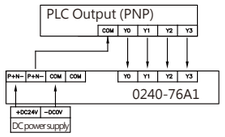


4 relays,
Input: Common (Support NPN/PNP),
Output: Surge protection (SP), COM with jumper and 1C contact, dual level PID terminal block

Connection diagram

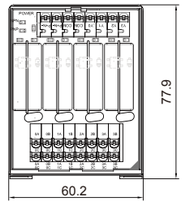


NPN Wiring diagram



PNP Wiring diagram

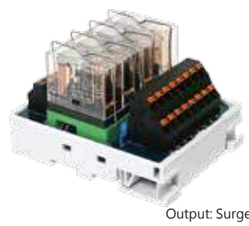
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Push-in connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Push-in connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	60.2 x 77.9 x 52.8	
Accessories	-	

0240-86A1

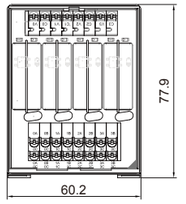


4 relays,
Input: COM Independent,
Output: Surge protection (SP), COM with jumper and 1C contact, dual level PID terminal block

Connection diagram

Input wiring diagram

Dimensions

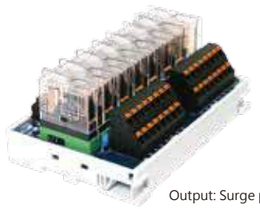


Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Push-in connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Push-in connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	60.2 x 77.9 x 52.8	
Accessories	-	

Relay Module

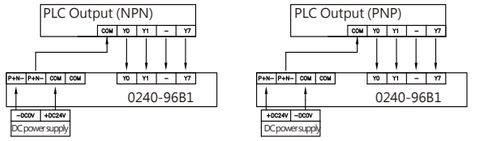
0240-96B1



WHH10/XX

8 relays,
Input: Common (Suggest Support NPN/PNP),
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level PID terminal block,
Suitable for IDC 10-pin connectors

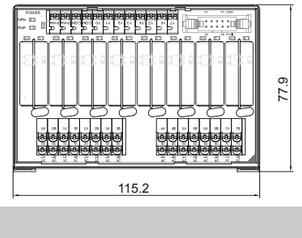
Connection diagram



NPN Wiring diagram

PNP Wiring diagram

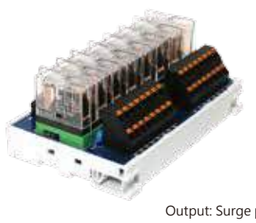
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Push-in connection+IDC	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Push-in connection+IDC	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	115.2 x 77.9 x 52.8	
Accessories	WHH10/XX (Page 34)	

0240-86B1

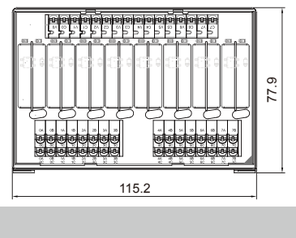


8 relays,
Input: COM Independent,
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level PID terminal block

Connection diagram

Input wiring diagram

Dimensions

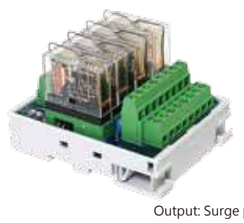


Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Push-in connection+IDC	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Push-in connection+IDC	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	115.2 x 77.9 x 52.8	
Accessories	-	

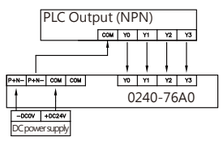
Relay Module

0240-76A0

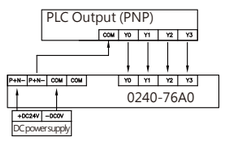


4 relays,
Input: Common (Suggest Support NPN/PNP),
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level screw terminal block

Connection diagram

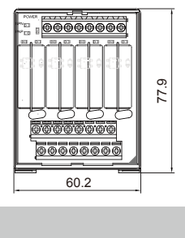


NPN Wiring diagram



PNP Wiring diagram

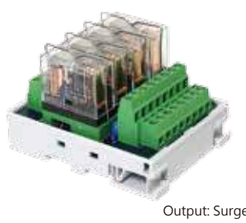
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	60.2 x 77.9 x 52.8	
Accessories	-	

0240-86A0

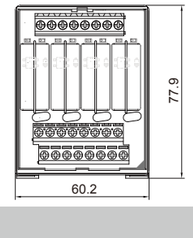


4 relays,
Input: COM Independent,
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level screw terminal block

Connection diagram

Input wiring diagram

Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	60.2 x 77.9 x 52.8	
Accessories	-	

Relay Module

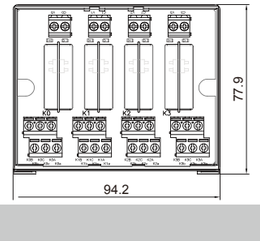
0240-8220

4 relays,
Input: COM Independent,
Output: shared COM jumper and 2C contact,
Double level Screw terminal block

Connection diagram

Input wiring diagram

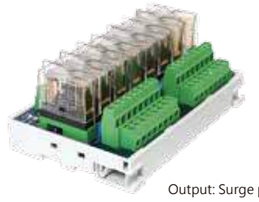
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	2C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	94.2 x 77.9 x 52.8	
Accessories	-	

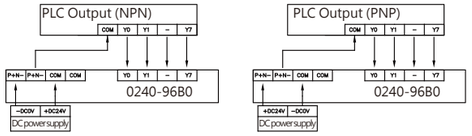
0240-96B0



WHH10/XX

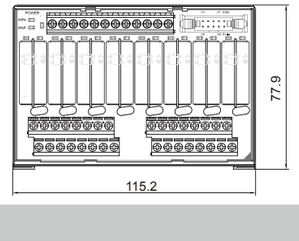
8 relays,
Input: COM Independent,
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level screw terminal block,
Suitable for IDC 10-pin connectors

Connection diagram



NPN Wiring diagram PNP Wiring diagram

Dimensions

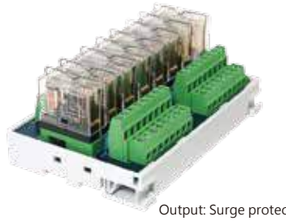


Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Screw connection+IDC	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection+IDC	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	115.2 x 77.9 x 52.8	
Accessories	WHH10/XX (Page 34)	

Relay Module

0240-86B0

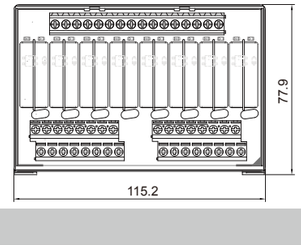


8 relays,
Input: COM Independent,
Output: Surge protection (SP), COM with jumper and 1C contact,
dual level screw terminal block

Connection diagram

Input wiring diagram

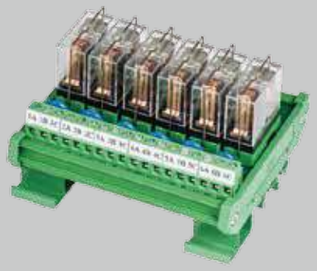
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70℃)	
Rated consumed power	About 0.53W	
Connection method	Screw connection+IDC	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection+IDC	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70℃(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	115.2 x 77.9 x 52.8	
Accessories	-	

Relay Module



RM024D-1C06C-2AM

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Relay module

② Coil voltage

③ Voltage category
D = DC
A = AC

④ Relay contact

⑤ Number of poles (Control side)

⑥ Potential trigger

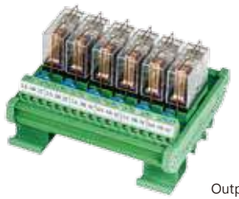
⑦ Control side connection type
0=Screw connection terminal block
1=PID connection terminal block
3=IDC connector
4=FUJI connector

⑧ Field side connection type
0=Screw connection terminal block
1=PID connection terminal block
A = A=Surge+ PCB terminal block
B = B= Jumper+ PCB terminal block

⑨ Relay brand
M=OMRON
J=FUJI
F = FINDER

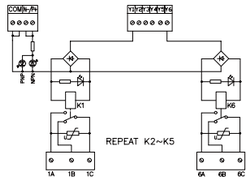
Relay module-Assembly housing

RM024D-1C06C-2AM

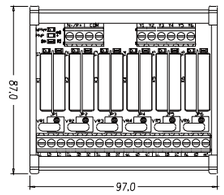


6 relays,
Input: Common (Support NPN/PNP),
Output: surge protection (SP) and 1C contact,
Single level Screw terminal block

Connection diagram



Dimensions

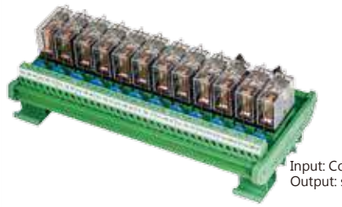


Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	97 x 87 x 61	
Accessories	-	

Relay Module

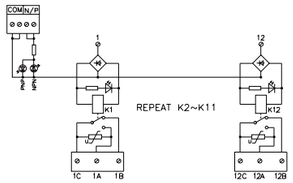
RM024D-1C12C-6AM



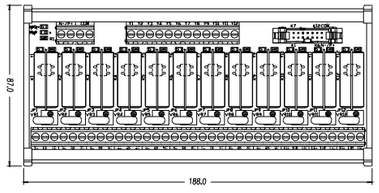
WHH14/XX

12 relays,
Input: Common (Suggest Support NPN/PNP),
Output: surge protection (SP) and 1C contact,
Single level Screw terminal block,
Suitable for IDC 14-pin connectors

Connection diagram



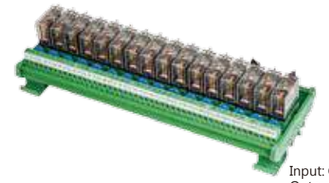
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	188 x 87 x 61	
Accessories	WHH14/XX (Page 34)	

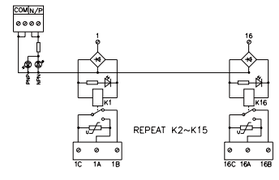
RM024D-1C16C-6AM



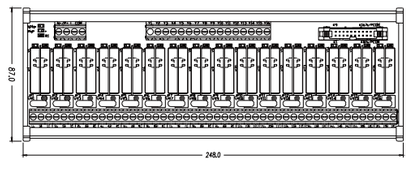
WHH20/XX

16 relays,
Input: Common (Suggest Support NPN/PNP),
Output: surge protection (SP) and 1C contact,
Single level Screw terminal block,
Suitable for IDC 20-pin connectors

Connection diagram



Dimensions



Specification

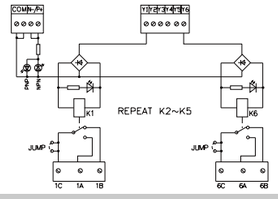
Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	248 x 87 x 61	
Accessories	WHH20/XX (Page 34)	

Relay Module

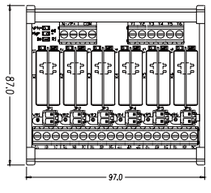
RM024D-1C06C-2BM

6 relays,
Input: Common (Suggest Support NPN/PNP),
Output: shared COM jumper and 1C contact,
Single level Screw terminal block

Connection diagram



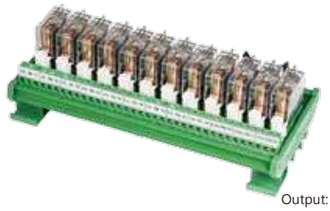
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	97 x 87 x 61	
Accessories	-	

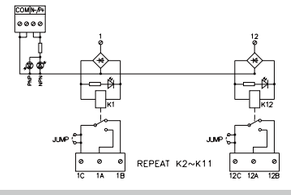
RM024D-1C12C-6BM



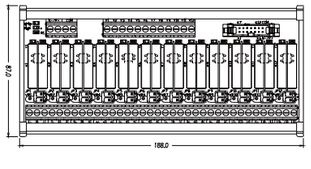
WHH14/XX

12 relays,
Input: COM Independent,
Output: shared COM jumper and 1C contact,
Single level Screw terminal block,
Suitable for IDC 14-pin connectors

Connection diagram



Dimensions

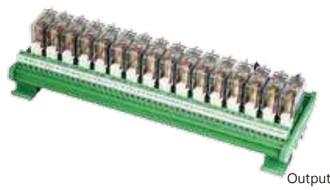


Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	188 x 87 x 61	
Accessories	WHF14/XX (Page 34)	

Relay Module

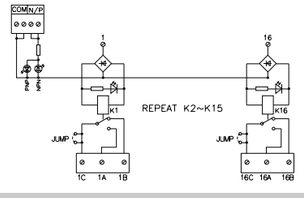
RM024D-1C16C-6BM



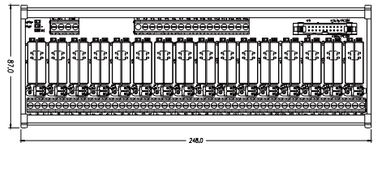
WHH20/XX

16 relays,
Input: COM Independent,
Output: shared COM jumper and 1C contact,
Single level Screw terminal block,
Suitable for IDC 20-pin connectors

Connection diagram



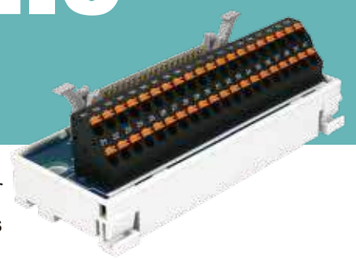
Dimensions



Specification

Input Coil (each relay)		
Rated voltage	24VDC	
Rated current	21.8mA	
Coil resistance	1,100Ω	
Operating voltage	Above 70% rated voltage	
Reset Voltage	Below 15% rated voltage	
Maximum permitted voltage	110% rated voltage(at 70°C)	
Rated consumed power	About 0.53W	
Connection method	Screw connection	
Output Contact (each relay)		
Relay specification	Contact type	1C
	Rated control capacity (resistive load)	AC-250V : 16A / DC-30V : 16A
	Rated control capacity(inductive load)	AC-250V : 8A / DC-30V : 8A
	Maximum contact voltage	AC-380V / DC-120V
	Maximum contact current	16A
Connection method	Screw connection	
Relay module output		
Maximum allowable voltage/current	AC-250V / 10A	
Electrical specification		
Operating time	Below 15ms	
Reset time	AC : 10ms Below / DC : 5ms Below	
Durability		
Mechanical	AC coil: 10,000,000 operations min(18,000 Ops/hr) DC coil: 20,000,000 operations min(18,000 Ops/hr)	
Electrical	100,000 operations min(Rated load 1,800 Ops/hr)	
Ambient		
Operating ambient temperature	-40 ~ +70°C(no freeze)	
Operating ambient humidity	5 ~ 85% RH (no Condensation)	
Size(LxWxH)(mm)	248 x 87 x 61	
Accessories	WHH20/XX (Page 34)	

Interface Module



Interface Module series products offer different designs using various connector types for signal distribution. The connectors comply with industrial standards and compatible with controllers in many brands, and specifications for wiring. The length of the wire harness offers standard and customized specifications for the flexible applications.

Definition of P/N for Interface Module in one piece carrier

0241-XXXX

① ② ③ ④ ⑤

① Series code

② Input connector type

0 = D-SUB
1 = D-SUB (triple-row male)
2 = FUJITSU
3 = IDC
4 = HONDA
5 = SCSI
6 = MDR
7 = Terminal Block (COM)
8 = Terminal Block (No COM)
9 = Terminal Block & IDC (COM)
A = Terminal Block & IDC (No COM)
B = D-SUB (double-level female)
C = D-SUB (triple-row female)

③ Controller type

A = Mitsubishi Q series QY82P
B = Mitsubishi Q series (except for QY82)
C = Keynes X Series (KV-X000, Nano)
D = Keyence Y series (KV-X000, Nano)
E = Pin to pin

④ Corresponding contact points
(PLC refers to IO points. Point to point refers to total contacts)

0 = 9P
1 = 10P
2 = 15P
3 = 16P
4 = 20P
5 = 25P
6 = 32P
7 = 34P
8 = 40P
9 = 44P
A = 50P
B = 68P
C = 100P

⑤ Output terminal block type &indicator light

0 = Screw connection terminal block (LED)
1 = Spring clamp connection terminal block (LED)
2 = Barrier terminal block (LED)
4 = Screw connection terminal block (No LED)
5 = Spring clamp connection terminal block (No LED)
6 = Barrier terminal block (No LED)

Interface Module

0241-3C31

WHH20/XX

IDC 20-pin IDC 20-pin

With LED indicator light,
Supports KEYENCE controller,
Adopt Push-in terminal block,
Compatible with IDC 20-pin connector

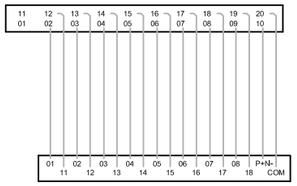
0241-3D31

WHH20/XX

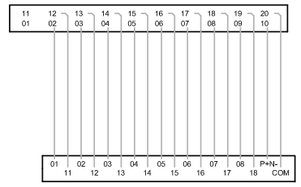
IDC 20-pin IDC 20-pin

With LED indicator light,
Supports KEYENCE controller,
Adopt Push-in terminal block,
Compatible with IDC 20-pin connector

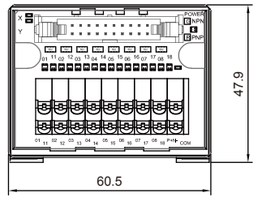
Connection diagram



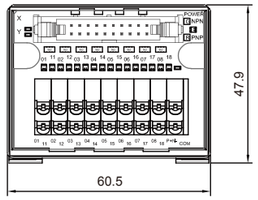
Connection diagram



Dimensions



Dimensions



Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	KV-NC16EX

Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	KV-NC16ET、KV-NC16ETP

Interface Module

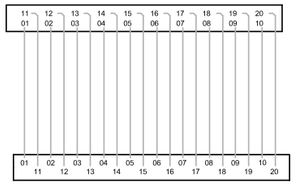
0241-3E45

WHH20/XX

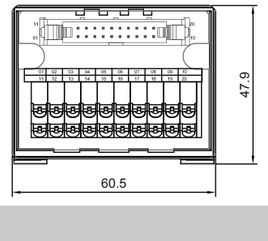
IDC 20-pin IDC 20-pin

Universal type,
Adopt Push-in terminal block,
Compatible with IDC 20-pin connector

Connection diagram



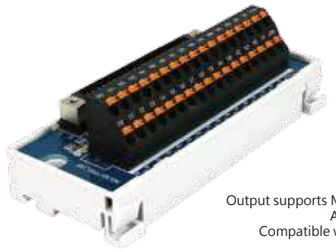
Dimensions



Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	Universal type

0241-2A61

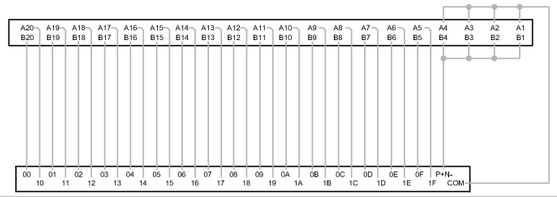


WHF40/XX

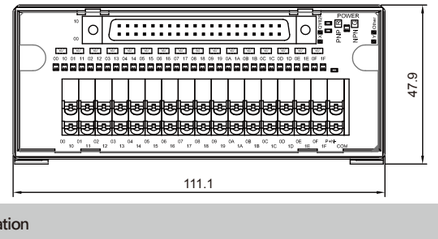
WHF 40-pin WHF 40-pin

With LED indicator light,
Output supports MISUBISHI(QY82P) controller,
Adopt Push-in terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 35.0
Accessories	WHF40/XX (Page 34)
Compatible controller model	QY82P

Interface Module

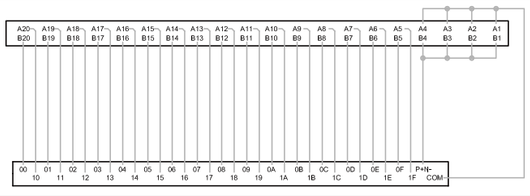
0241-2B61

WHF40/XX

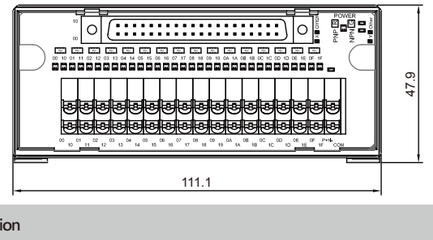
WHF 40-pin WHF 40-pin

With LED indicator light,
Supports MISUBISHI Q type controller,
Adopt Push-in terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



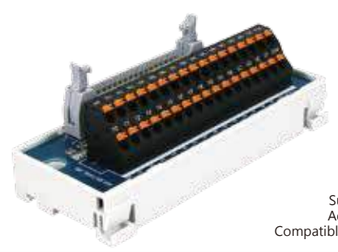
Dimensions



Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 35.0
Accessories	WHF40/XX (Page 34)
Compatible controller model	QH42P、QX41、QX41-S1、QX41Y41P、QX42、QX42-S1 QY41P、QY42P、QY71、QX71、QX72、QX82、QX82-S1

0241-3C61

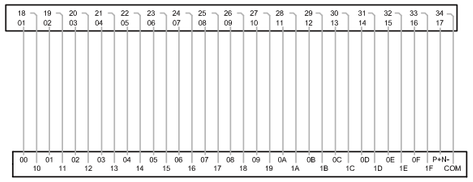


WHH34/XX

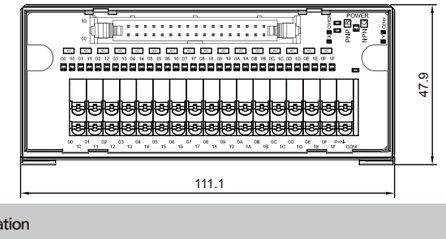
IDC 34-pin IDC 34-pin

With LED indicator light,
Supports KEYENCE controller,
Adopt Push-in terminal block,
Compatible with IDC 34-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	KV-C32XC、KV-C64XC、KV-NC32EX、KV-C32XTD、KV-32EXT

Interface Module

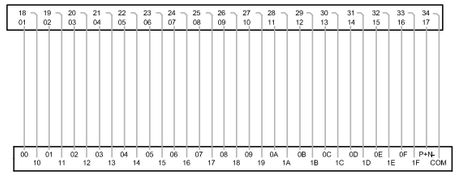
0241-3D61

WHH34/XX

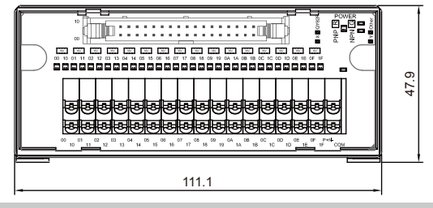
IDC 34-pin IDC 34-pin

With LED indicator light,
Output supports KEYENCE controller,
Adopt Push-in terminal block,
Compatible with IDC 34-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	KV-C32TC、KV-C32TD、KV-C32TCP、KV-C64TC、KV-C64TD KV-C64TCP、KV-NC32ET、KV-NC32ETP、KV-C32XTD、KV-32EXT

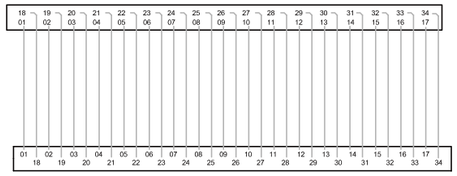
0241-3E75

WHH34/XX

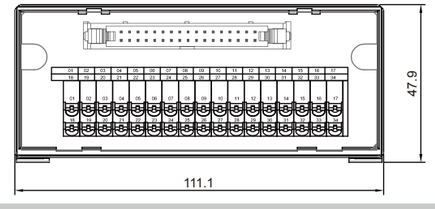
IDC 34-pin IDC 34-pin

Output supports Universal type,
Adopt Push-in terminal block,
Compatible with IDC 34-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	Universal type

Interface Module

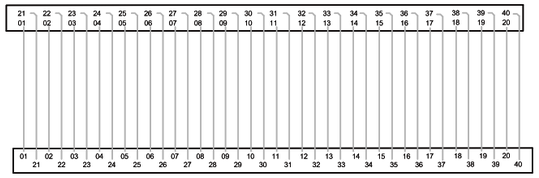
0241-2E85

WHF40/XX

WHF 40-pin WHF 40-pin

Output supports Universal type,
Adopt Push-in terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



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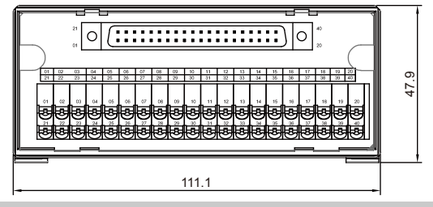


Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 35.0
Accessories	WHF40/XX (Page 34)
Compatible controller model	Universal type

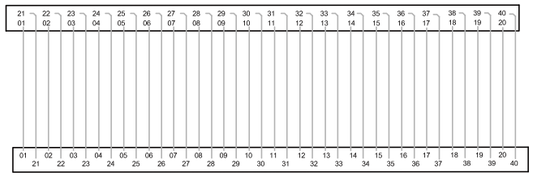
0241-3E85

WHH40/XX

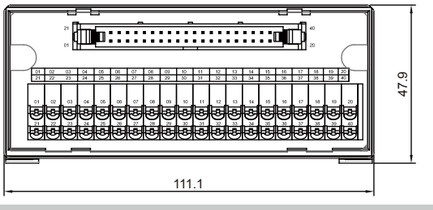
IDC 40-pin IDC 40-pin

Output supports Universal type,
Adopt Push-in terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



Dimensions

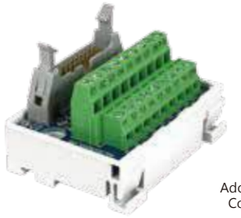


Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Push-in connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH40/XX (Page 34)
Compatible controller model	Universal type

Interface Module

0241-3C30

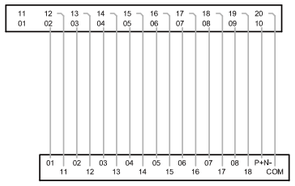


WHH20/XX

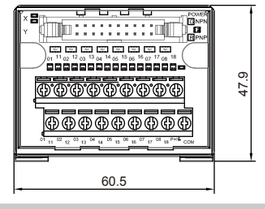
IDC 20-pin IDC 20-pin

With LED indicator light,
Supports KEYENCE controller,
Adopt Screw connection terminal block,
Compatible with IDC 20-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	KV-NC16EX

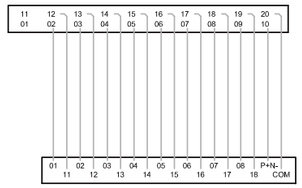
0241-3D30

WHH20/XX

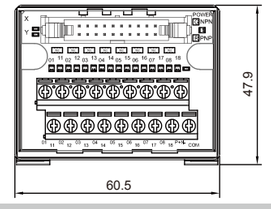
IDC 20-pin IDC 20-pin

With LED indicator light,
Output supports KEYENCE controller,
Adopt Screw connection terminal block,
Compatible with IDC 20-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	KV-NC16ET、KV-NC16ETP

Interface Module

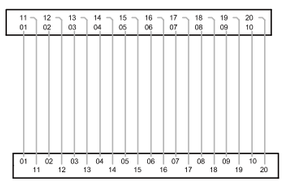
0241-3E44

WHH20/XX

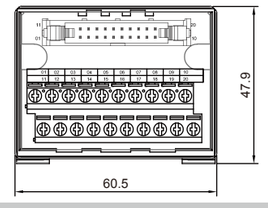
IDC 20-pin IDC 20-pin

Universal type,
Adopt Screw connection terminal block,
Compatible with IDC 20-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	20 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	60.5 x 47.9 x 42.0
Accessories	WHH20/XX (Page 34)
Compatible controller model	Universal type

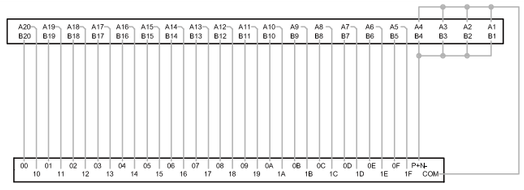
0241-2A60

WHF40/XX

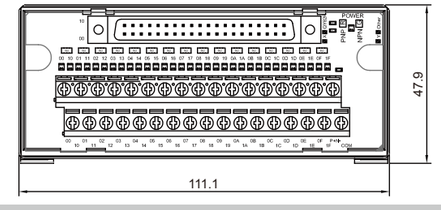
WHF 40-pin WHF 40-pin

With LED indicator light,
Supports MISUBISHI(QY82P) controller,
Adopt Screw connection terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



Dimensions

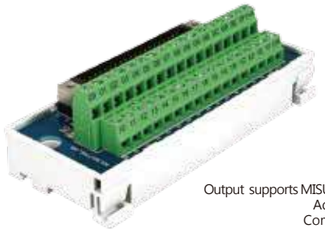


Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 33.9
Accessories	WHF40/XX (Page 34)
Compatible controller model	MISUBISHI(QY82P)

Interface Module

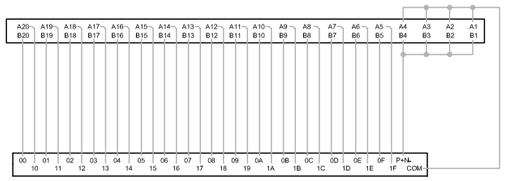
0241-2B60



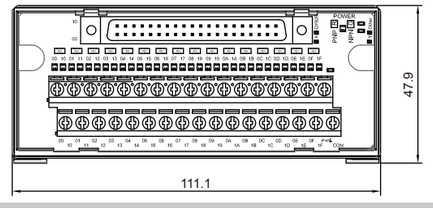
WHF40/XX

With LED indicator light,
Output supports MISUBISHI Q type(QY82P excluded) controller,
Adopt Screw connection terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



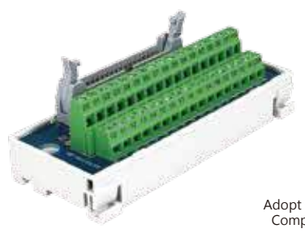
Dimensions



Specification

Item	
Numbers of connection	40 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 35.0
Accessories	WHF40/XX (Page 34)
Compatible controller model	QH42P、QX41、QX41-S1、QX41Y41P、QX42、QX42-S1 QY41P、QY42P、QY71、QX71、QX72、QX82、QX82-S1

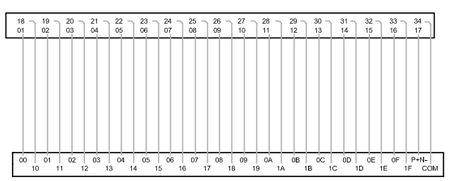
0241-3C60



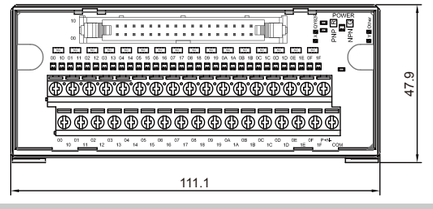
WHH34/XX

With LED indicator light,
Output supports KEYENCE type ,
Adopt Screw connection terminal block,
Compatible with IDC 34-pin connector

Connection diagram



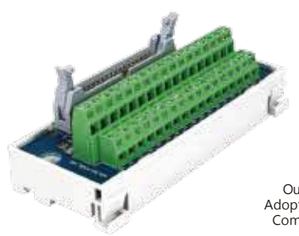
Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	KV-C32XC、KV-C64XC、KV-NC32EX、KV-C32XTD、KV-32EXT

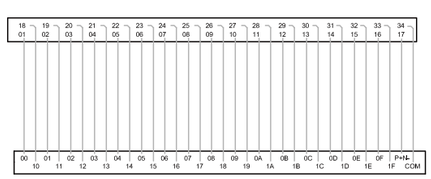
0241-3D60



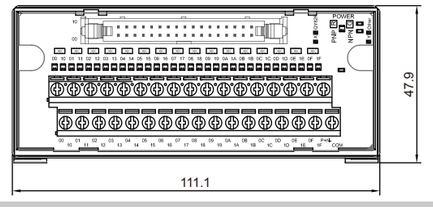
WHH34/XX

With LED indicator light,
Output supports KEYENCE controller,
Adopt Screw connection terminal block,
Compatible with IDC 34-pin connector

Connection diagram



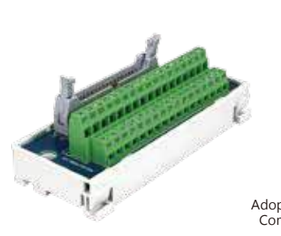
Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	Yes
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	KV-C32TC、KV-C32TD、KV-C32TCP、KV-C64TC、KV-C64TD KV-C64TCP、KV-NC32ET、KV-NC32ETP、KV-C32XTD、KV-32EXT

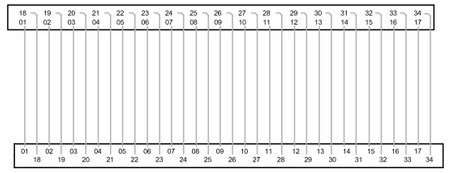
0241-3E74



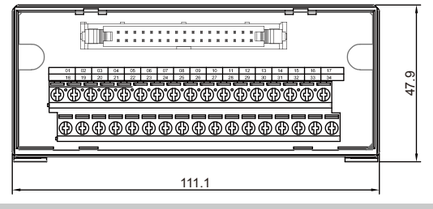
WHH34/XX

Output supports Universal type ,
Adopt Screw connection terminal block,
Compatible with IDC 34-pin connector

Connection diagram



Dimensions

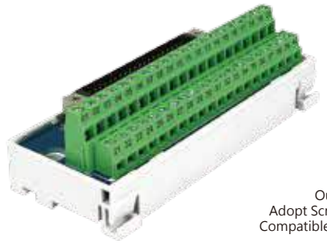


Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	Universal type

Interface Module

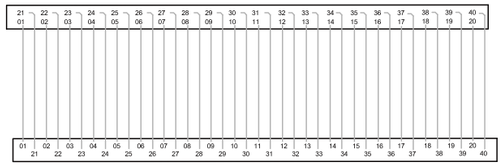
0241-2E84



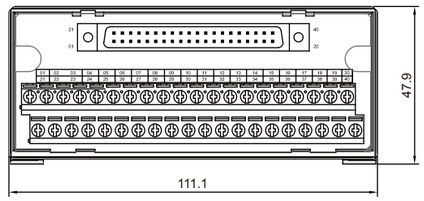
WHF40/XX

Output supports Universal type ,
Adopt Screw connection terminal block,
Compatible with Fujitsu 40-pin connector

Connection diagram



Dimensions



Specification

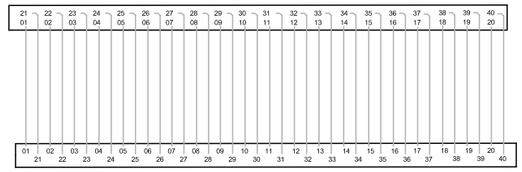
Item	
Numbers of connection	40 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	Fujitsu
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 33.9
Accessories	WHF40/XX (Page 34)
Compatible controller model	Universal type

0241-3E84

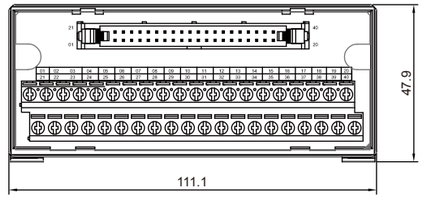
WHH40/XX

Output supports Universal type ,
Adopt Screw connection terminal block,
Compatible with IDC 34-pin connector

Connection diagram



Dimensions



Specification

Item	
Numbers of connection	34 Pole
Terminal block type	Screw connection
Rated voltage	DC 24V
Rated current	1A
Wire size	28-16 AWG
Suitable wiring	NPN / PNP
Connector type	IDC
Indicator light	No
Size(L x W x H) (mm)	111.1 x 47.9 x 42.0
Accessories	WHH34/XX (Page 34)
Compatible controller model	Universal type

Interface Module

Interface Module

DMXX-AP01CL

① ② ③ ④ ⑤

① Interface module type

DM=D-Sub
FM=FUJI（FCN-364P0XX-AU）
HM=3M（3XXX-6302PL）
HDM=HONDA（MR-XXRFD2+）
MM=3M MDR（102XX-6202PL）

② Number of Interface module

③ Connector type

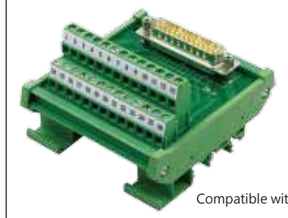
AP=Amphenol
FJ=Fujitsu
3M=3M
HD=HONDA
SM=SCSI

④ Connector male/female

⑤ Label type

Interface Module– One piece carrier

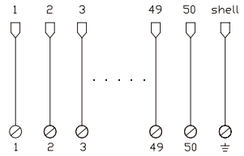
DMXX-AP01CL



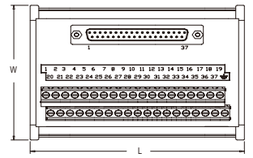
WHDF

Compatible with double-level, screw connection terminal lock,
Suitable for D-SUB male

Connection diagram



Dimensions



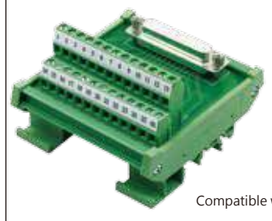
Specification

Item	
Number of connection	09, 15, 25, 37, 50 Pole
Terminal block type	Screw connection
Rated voltage	DC 125V
Rated current	1A
Compatible wire size	28-16 AWG
Suitable wiring	-
Connector type	D SUB (male)
Indicator light	-
Operating temperature	-20 ~ +85℃
Accessories	WHDF (Page 34)

P/N	Size (mm)
DM09-AP01CL	45 x 87 x 51
DM15-AP01CL	57 x 87 x 51
DM25-AP01CL	79.5 x 87 x 51
DM37-AP01CL	112 x 87 x 51
DM50-AP01CL	112 x 87 x 51

Interface Module

DMXX-AP02CL

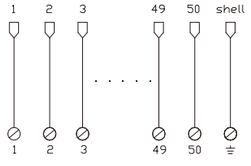


WHDM

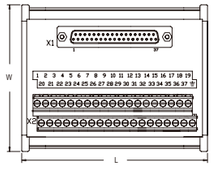
D-SUB Male D-SUB Male

Compatible with double-level, screw connection terminal lock, Suitable for D-SUB female

Connection diagram



Dimensions



Specification

Item	
Number of connection	09, 15, 25, 37, 50 Pole
Terminal block type	Screw connection
Rated voltage	DC 125V
Rated current	1A
Compatible wire size	28-16 AWG
Suitable wiring	-
Connector type	D SUB (female)
Indicator light	-
Operating temperature	-20 ~ +85℃
Accessories	WHDF (Page 34)

P/N	Size (mm)
DM09-AP02CL	45 x 87 x 51
DM15-AP02CL	57 x 87 x 51
DM25-AP02CL	79.5 x 87 x 51
DM37-AP02CL	112 x 87 x 51
DM50-AP02CL	112 x 87 x 51

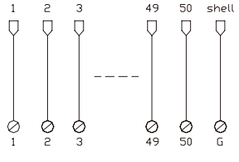
HDMXX-HD01CL

WHN

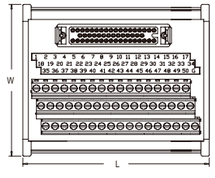
HONDA MR-XXM HONDA MR-XXM

Compatible with three floors, screw connection terminal lock, Compatible with HONDA connector

Connection diagram



Dimensions



Specification

Item	
Number of connection	20, 50 Pole
Terminal block type	Screw connection
Rated voltage	DC 125V
Rated current	1A
Compatible wire size	28-16 AWG
Suitable wiring	-
Connector type	HONDA Connector
Indicator light	-
Operating temperature	-20 ~ +85℃
Accessories	WHN (Page 34)

P/N	Size (mm)
HDM20-HD01CL	56 x 87 x 51
HDM50-HD01CL	101 x 87 x 51

Interface Module

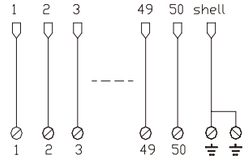
MMXX-3M01CL

WHM

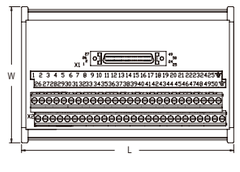
3M MDR 3M MDR

Compatible with double-level, screw connection terminal lock, Suitable for MDR connector

Connection diagram



Dimensions



Specification

Item	
Number of connection	20, 26, 36, 40, 50, 68, 100 Pole
Terminal block type	Screw connection
Rated voltage	DC 125V
Rated current	1A
Compatible wire size	28-16 AWG
Suitable wiring	-
Connector type	MDR
Indicator light	-
Operating temperature	-20 ~ +85℃
Accessories	WHM (Page 34)

P/N	Size (mm)
MM20-3M01CL	79 x 87 x51
MM26-3M01CL	89.5 x 87 x 51
MM36-3M01CL	112 x 87 x 51
MM40-3M01CL	123 x 87 x 51
MM50-3M01CL	146 x 87 x 51
MM68-3M01CL	191 x 87 x51
MM100-3M01CL	281 x87 x 51

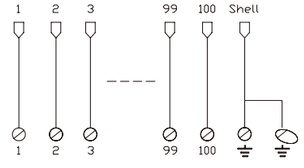
MMXX-SM01CL

WHMS

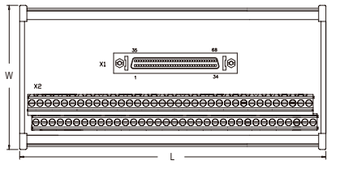
SCSI Male SCSI Male

Compatible with double-level, screw connection terminal lock, Suitable for SCSI connector

Connection diagram



Dimensions



Specification

Item	
Number of connection	68, 100 Pole
Terminal block type	Screw connection
Rated voltage	DC 125V
Rated current	1A
Compatible wire size	28-16 AWG
Suitable wiring	-
Connector type	SCSI
Indicator light	-
Operating temperature	-20 ~ +85℃
Accessories	WHMS (Page 34)

P/N	Size (mm)
MM68-SM01CL	191 x 87 x 51
MM100-SM01CL	281 x 87 x 51

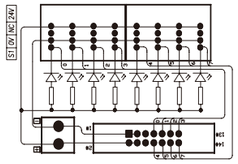
Interface Module

HM1408-3M01CL

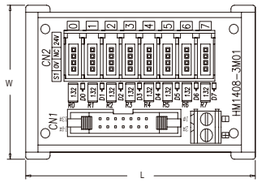
WHH

Suitable for IDC connector

Connection diagram



Dimensions



Specification

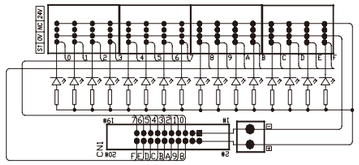
Item	
Number of connection	8 Set
Terminal block type	-
Rated voltage	-
Rated current	-
Compatible wire size	-
Suitable wiring	-
Connector type	IDC · mini clamp connector socket
Indicator light	-
Size(L x W x H) (mm)	76 x 48 x 48
Accessories	WHH (Page 34)

HM2016-3M01CL

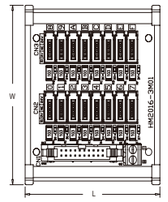
WHH

Suitable for IDC connector

Connection diagram



Dimensions



Specification

Item	
Number of connection	16 Set
Terminal block type	-
Rated voltage	-
Rated current	-
Compatible wire size	-
Suitable wiring	-
Connector type	IDC · mini clamp connector socket
Indicator light	-
Size(L x W x H) (mm)	78 x 74 x 52
Accessories	WHH (Page 34)

Interface Module

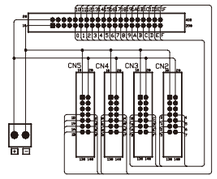
Interface Module

HM4014-3M01CL

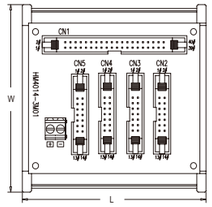
WHH

Suitable for IDC connector

Connection diagram



Dimensions



Specification

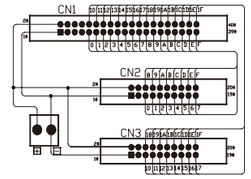
Item	
Number of connection	4 Set
Terminal block type	-
Rated voltage	-
Rated current	-
Compatible wire size	-
Suitable wiring	-
Connector type	IDC
Indicator light	-
Size(L x W x H) (mm)	90 x 87 x 52
Accessories	WHH (Page 34)

HM4020-3M01CL

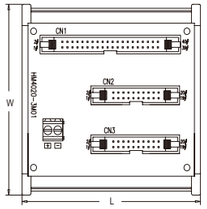
WHH

Suitable for IDC connector

Connection diagram



Dimensions



Specification

Item	
Number of connection	4 Set
Terminal block type	-
Rated voltage	-
Rated current	-
Compatible wire size	-
Suitable wiring	-
Connector type	IDC
Indicator light	-
Size(L x W x H) (mm)	90 x 87 x 52
Accessories	WHH (Page 34)

Cable selection

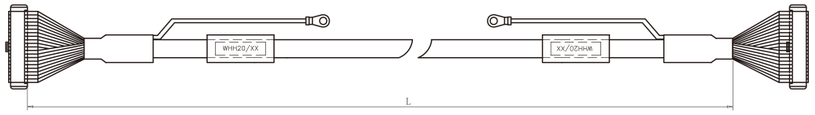
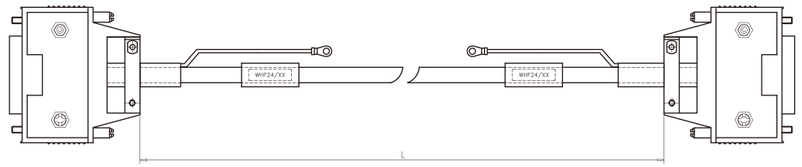
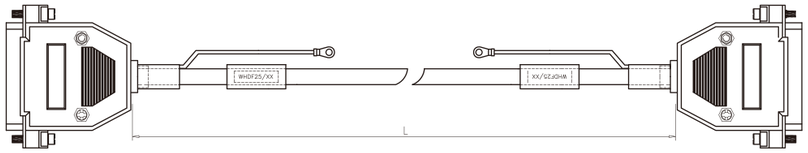
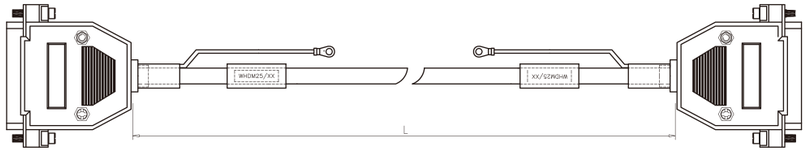
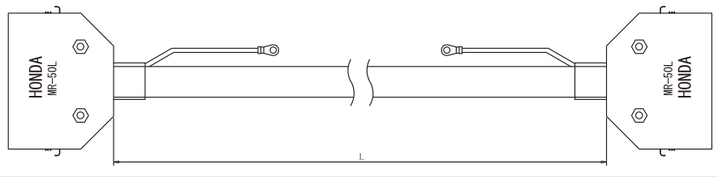
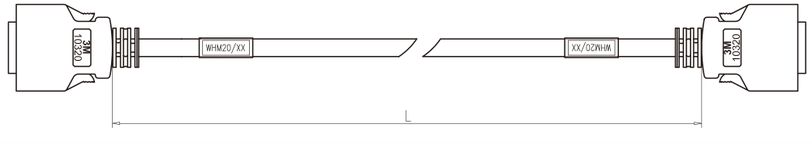
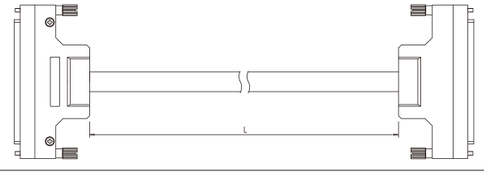
WHH20/XX

① ② ③

① Connector type

② Number of PIN, 20 means 20PIN, offer various numbers of PIN by the different specifications

③ L means cable length
0.5m · P/N is WHH20/0.5
1m · P/N is WHH20/1.0

Cable type	P/N	Drawing
IDC	WHH20/XX	
Fujitsu	WHF20/XX	
D-Sub Female	WHDF20/XX	
D-Sub Male	WHDM20/XX	
Honda Male	WHN20/XX	
3M MDR	WHM20/XX	
SCSI Male	WHMS20/XX	

*The Minimum length of cable is 0.5 m.
*The length of cable is multiple of 0.5 m.

Accessories

DNT04-2010A **DNT04-2616A**

20-10AWG
0.6~5mm²

26-16AWG
0.2~1.25mm²

Stripping Plier

- For thick wires rotate the screw clockwise, and rotate the screw anticlock-wise for thin wires
- Design with an ergonomic handle and reduce stress for continuous use
- Adjust the wire stripping length freely
- Suitable for wide range of wire sizes
- Spring design is easy for use

DNT13-0101

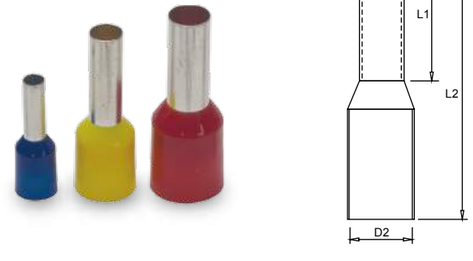
Crimping Plier

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

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

Cost saving
Mechanical design helps labor saving & cost saving.

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



Ferrule

- The following ferrules are compatible with all specifications of terminal blocks in this catalogue

Diameter AWG (mm²)	Part number	Package	Size(mm)				DIN 46228/4 color
		Pcs/bag	D1	D2	L1	L2	
24 (0.20)	DN00208D	1000	0.75	1.9	8	12	Blue
22 (0.34)	DN00308D	1000	0.8	1.9	8	12	Turouise
20 (0.5)	DN00508D	500	1.0	2.6	8	14	White
18 (0.75)	DN00708D	500	1.2	2.8	8	14	Grey
(1)	DN01008D	500	1.4	3.0	8	14	Red
16 (1.5)	DN01508D	500	1.7	3.5	8	14	Black

Memo