



Industrial Interface

GLOBAL
SOLUTIONS

— THE COMPANY

At Global Solutions, we redefine industrial automation. Since 2011, we've been synonymous with innovation, delivering a range of products, solutions, and services that set industry standards.

About Us:

Global Solutions is a distinguished player in the realm of industrial automation, offering a comprehensive range of products, solutions, and services since its inception in 2011. With a decade of experience under our belt, we have evolved into a trusted partner for businesses seeking advanced automation solutions.

Our Offerings:

Our portfolio encompasses a diverse array of industrial automation products, solutions, and services that cater to the unique needs of our clients. We take pride in being an authorized partner of esteemed multinational brands, including Honeywell, Dräger, UL Group, Eaton-MTL and Weidmuller. Additionally, our expertise extends to complete solutions for brands such as O-ring, Procentec, Helmhoz, HMS, etc. ensuring a comprehensive range of choices for our clients.



— OUR VISION & MISSION

Vision:

To be a globally recognized leader in providing innovative and sustainable industrial automation solutions, setting the standard for excellence in the industry.

Mission:

To empower businesses through cutting-edge technologies, exceptional products, and unparalleled services, fostering growth, efficiency, and safety in industrial processes.



— Choosing **Global Solutions** means...

Choosing a partner that provides not just solutions, but a commitment to excellence and innovation. Our blend of exclusive partnerships, technical expertise, customer-centric approach, and efficient supply chain establishes us as a leader in the industrial automation landscape. Experience the Global Solutions difference for yourself.

— **Expertise in Network Services:**

At Global Solutions, we offer more than just products. Our state-of-the-art services for Profibus and Profinet networks demonstrate our commitment to seamless implementation and optimization. We don't just sell solutions; we make sure they work flawlessly within your network infrastructure. Our experienced team specializes in optimizing network performance for efficiency and reliability.

— **Serving Panel Builders and System Integrators:**

Global Solutions is proud to extend its offerings to Panel Builders and System Integrators of various brands. We recognize the pivotal role these partners play in the industrial ecosystem, and we provide them with industrial automation products that empower them to deliver exceptional solutions to their clients.

— **Honeywell Field Instrumentation, Thermal Solutions and Control Systems:**

We're not just a generalist; we specialize in Honeywell Field Instrumentation and Control Systems designed specifically to meet the intricate needs of process plants. This expertise reflects our commitment to delivering tailor-made solutions that are finely tuned to process plant operations.

— **Expertise in Drager Fixed Gas Detection:**

Global Solutions takes pride in providing a specialized range of Fixed Gas detection products, solutions, and services using Drager technology. This offering caters to various process industries, ensuring safety and compliance with the highest standards in gas detection.

— **IIOT, Industrial 4.1, Cybersecurity, and Advanced Software:**

Global Solutions provides cutting-edge solutions in the realms of Industrial Internet of Things (IIOT), Industry 4.1, Cybersecurity, and advanced software. We empower businesses to harness the potential of the latest technologies, ensuring efficiency, connectivity, and security in their operations.

— **Continuous Innovation:**

At Global Solutions, our commitment to innovation is unwavering. We continuously explore new products, solutions, and services to provide a one-stop solution to our valuable customers. This dedication ensures that we stay at the forefront of technological advancements, offering our clients the latest and most effective solutions in the ever-evolving field of industrial automation.

— **Experienced Leadership:**

Our senior leadership team comprises individuals with over 20 years of experience in the industrial automation sector. Their in-depth knowledge and hands-on expertise ensure that our solutions not only meet technical standards but also align with industry best practices.

— **Customer-Centric Approach:**

At the core of our philosophy lies an unwavering commitment to customer satisfaction. We understand that your success is our success. By taking the time to comprehend your unique requirements, we deliver solutions that seamlessly align with your objectives, fostering lasting partnerships.

— **Customer Appreciation:**

We're proud of the fact that our efforts have not gone unnoticed. The appreciation we've received from our customers is a testament to our dedication to excellence and our ability to deliver on our promises.

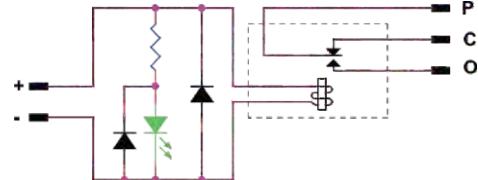
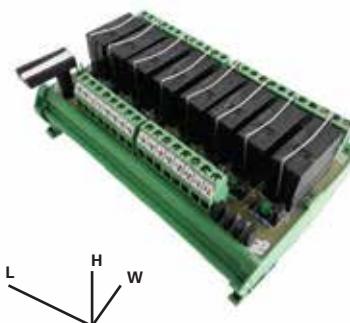


Standard Relay Modules

DC Relay Module with 1 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data			Relay Data	
Operating Voltage	12VDC	24VDC	Relay Make	Omron, G2RL Series or Equivalent
Rated Current (mA)	40	25	Contact Type	1 Change Over
Input Status LED/Ch	Green		Approvals	   
Back emf Protection/Channel	Free-wheeling Diode		Relay Socket	
Positive/Negative Looping	User Selectable using Jumpers		Rated values	5A AC/ DC, 250V rms
Output Data			Dielectric strength	2000V AC rms for 1 min.
Contact Configuration	SPDT, Potential Free		Insulation resistance	1000MΩ at 500V DC
Contact Current Rating	12 A at 250 VAC		Standard conformity	EN 60947-5-1/ IEC 947-5-1
	12 A at 24 VDC		Ambient temperature	-45 to +120°C
Max. switching voltage	440 VAC, 300 VDC		General Data	
Mechanical operation	18,000 /hr		Ambient temperature	0°C to +60°C
Electrical operation	1,800 /hr		Relative humidity	Max. 90% (Non-condensing)
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.		PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Termination Data			Screw-Terminals	UL, CSA Standard & CE standard
Terminal Type	Screw Terminal		Mounting	Din Rail Mountable
Nominal Current	24A		Approval	
Cross-section	2.5mm ²		Ordering details	
Rated Voltage	250V		Channel	Part Code
Rated surge Voltage	4KV		Ordering Code	Size in mm (L x W)
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12		1	UL24D01-COB
Stripping Length	8mm		2	UL24D02-COB
Type of Insulation material	PA/ I		4	UL24D04-COB
Tightening torque	0.6 Nm Max.		8	UL24D08-COB-V1
			16	UL24D16-COB-V2

Note: • Relay Coil Voltage with 48VDC, 110VDC are available on request.

• Other option available in Relay modules such as

1) Relay module with common -ve or common +ve looping only

2) With Normally Open contacts

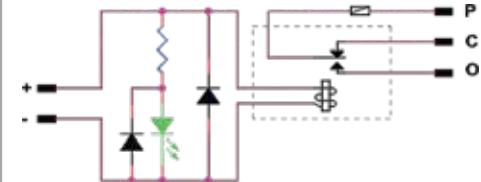
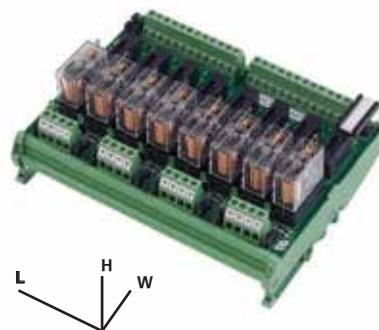
3) Wetted contacts or Pot free /Wetted selectable.

Standard Relay Modules

DC Relay Module, 1 C/O Contact with fuse in each contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data		
Operating Voltage	12VDC	24VDC
Rated Current (mA)	40	25
Input Status LED/Ch		Green
Back emf Protection/Channel		Free-wheeling Diode
Positive/Negative Looping	User Selectable using Jumpers	
Output Data		
Contact Configuration	SPDT, Potential Free	
Contact Current Rating	12 A at 250 VAC	
	12 A at 24 VDC	
Max. switching voltage	440 VAC,300 VDC	
Mechanical operation	18,000 /hr	
Electrical operation	1,800 /hr	
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.	
Protection	Fuse in each contacts	
Termination Data		
Terminal Type	Screw Terminal	
Nominal Current	24A	
Cross-section	2.5mm ²	
Rated Voltage	250V	
Rated surge Voltage	4KV	
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12	
Stripping Length	8mm	
Type of Insulation material	PA/ I	
Tightening torque	0.6 Nm Max.	

Relay Data	
Relay Make	Omron, G2RL Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Relay Socket	
Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Standard conformity	EN 60947-5-1/ IEC 947-5-1
Ambient temperature	-45 to +120°C

General Data	
Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable
Approval	

Ordering details			
Channel	Part Code	Ordering Code	Size in mm (L x W)
2	UL24D02-OF-COB	On request	48 x 90
4	UL24D04-OF-COB	086030400014	79x126
8	UL24D08-OF-COB	086010100007	134 x126
16	UL24D16-OF-COB	086010200007	256x126

Note: • Relay Coil Voltage with 48VDC,110VDC are available on request.

• Other option available in Relay modules such as

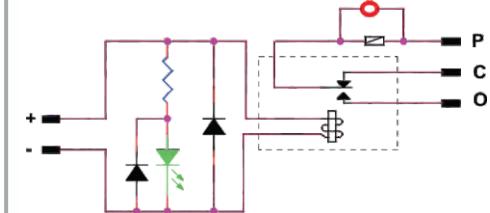
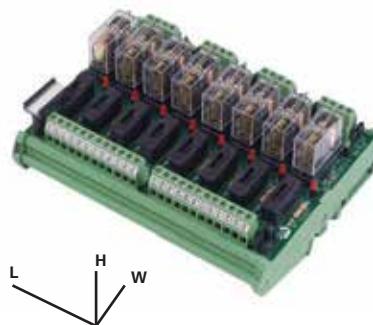
- 1) Relay module with common -ve or common +ve looping only
- 2) With Normally Open contacts
- 3) Wetted contacts or Pot free /Wetted selectable.
- 4) Fuse rating 2Amp./5Amp.

Standard Relay Modules

DC Relay Module, 1 C/O Contact with fuse and fuse fail LED in each contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data			Relay Data	
Operating Voltage	12VDC	24VDC	Relay Make	Omron, G2RL Series or Equivalent
Rated Current (mA)	40	25	Contact Type	1 Change Over
Input Status LED/Ch	Green		Approvals	   
Back emf Protection/Channel	Free-wheeling Diode			
Positive/Negative Looping	User Selectable using Jumpers			
Output Data			Relay Socket	
Contact Configuration	SPDT, Potential Free		Rated values	5A AC/ DC, 250V rms
Contact Current Rating	12 A at 250 VAC 12 A at 24 VDC		Dielectric strength	2000V AC rms for 1 min.
Max. switching voltage	440 VAC,300 VDC		Insulation resistance	1000MΩ at 500V DC
Mechanical operation	18,000 /hr		Standard conformity	EN 60947-5-1/ IEC 947-5-1
Electrical operation	1,800 /hr		Ambient temperature	-45 to +120°C
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.			
Protection	Fuse and Fuse Fail Indiction in each channel			
Termination Data			General Data	
Terminal Type	Screw Terminal		Ambient temperature	0°C to +60°C
Nominal Current	24A		Relative humidity	Max. 90% (Non-condensing)
Cross-section	2.5mm ²		PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Rated Voltage	250V		Screw- Terminals	UL, CSA Standard & CE standard
Rated surge Voltage	4KV		Mounting	Din Rail Mountable
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12		Approval	
Stripping Length	8mm			
Type of Insulation material	PA/ I			
Tightening torque	0.6 Nm Max.			
Ordering details				
Channel	Part Code		Ordering Code	Size in mm (L x W)
2	UL24D02-OFI-COB		On request	50 x 90
4	UL24D04-OFI-COB		086030400005	87x126
8	UL24D08-OFI-COB-V1		086010100001	132x126
16	UL24D16-OFI-COB-CMPT-MIN.RES.		086010200008	262x126

Note: • Relay Coil Voltage with 48VDC,110VDC are available on request.

• Other option available in Relay modules such as

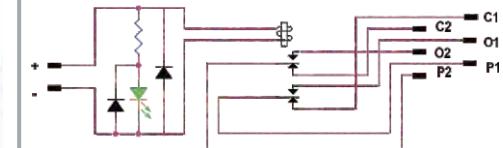
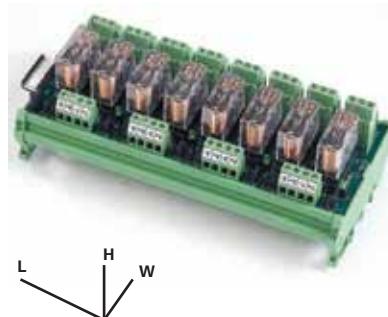
- 1) Relay module with common -ve or common +ve looping only
- 2) With Normally Open contacts
- 3) Wetted contacts or Pot free /Wetted selectable.
- 4) Fuse rating 2Amp./5Amp.

Standard Relay Modules

DC Relay Module with 2 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage	12VDC	24VDC
Rated Current (mA)	40	25
Input Status LED/Ch	Green	
Back emf Protection/Channel	Free-wheeling Diode	
Positive/Negative Looping	User Selectable using Jumpers	

Output Data

Contact Configuration	DPDT, Potential Free
Contact Current Rating	8 A at 250 VAC
	8 A at 24 VDC
Max. switching voltage	440 VAC, 300 VDC
Mechanical operation	18,000 /hr
Electrical operation	1,800 /hr
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.

Termination Data

Terminal Type	Screw Terminal
Nominal Current	24A
Cross-section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Stripping Length	8mm
Type of Insulation material	PA/ I
Tightening torque	0.6 Nm Max.

Note: • Relay Coil Voltage with 48VDC, 110VDC are available on request.
 • Other option available in Relay modules such as
 1) Relay module with common -ve or common +ve looping only
 2) With Normally Open contacts
 3) Wetted contacts or Pot free /Wetted selectable.

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	2 Change Over
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Standard conformity	EN 60947-5-1/ IEC 947-5-1
Ambient temperature	-45 to +120 °C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable
Approval	

Ordering details

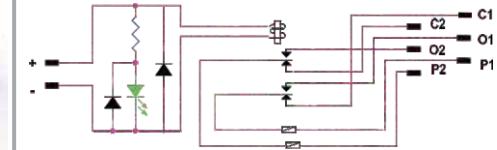
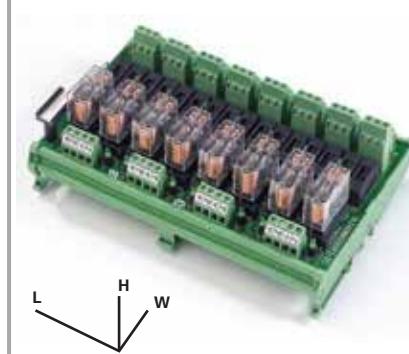
Channel	Part Code	Ordering Code	Size in mm (L x W)
1	UL24D01-2COB	086030100003	38x90
2	UL24D02-2COB	086030200005	60x90
4	UL24D04-2COB	086030400008	102 x 90
8	UL24D08-2COB-V2	086010100005	140 x 90
16	UL24D16-2COB	086010200005	257x126

Standard Relay Modules

DC Relay Module, 2 C/O Contact with fuse in each contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage	12VDC	24VDC
Rated Current (mA)	40	25
Input Status LED/Ch	Green	
Back emf Protection/Channel	Free-wheeling Diode	
Positive/Negative Looping	User Selectable using Jumpers	

Output Data

Contact Configuration	DPDT, Potential Free
Contact Current Rating	8 A at 250 VAC
	8 A at 30 VDC
Max. switching voltage	440 VAC,300 VDC
Mechanical operation	18,000 /hr
Electrical operation	1,800 /hr
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.
Protection	Fuse in each contacts

Termination Data

Terminal Type	Screw Terminal
Nominal Current	24A
Cross-section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Stripping Length	8mm
Type of Insulation material	PA/ I
Tightening torque	0.6 Nm Max.

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	2 Change Over
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Standard conformity	EN 60947-5-1/ IEC 947-5-1
Ambient temperature	-45 to +120°C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable
Approval	

Ordering details

Channel	Part Code	Ordering Code	Size in mm (L x W)
4	UL24D04-OF-2COB	086030400006	102 x 126
8	UL24D08-OF-2COB	086010100013	188 x 126
16	UL24D16-OF-2COB	086010200002	362 x 126

Note: • Relay Coil Voltage with 48VDC,110VDC are available on request.

• Other option available in Relay modules such as

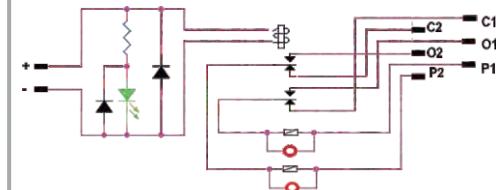
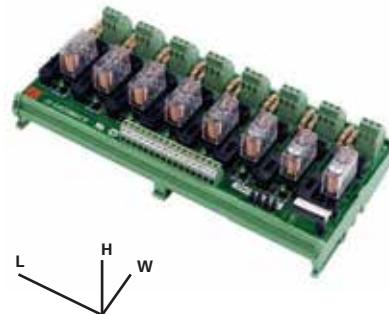
- 1) Relay module with common -ve or common +ve looping only
- 2) With Normally Open contacts
- 3) Wetted contacts or Pot free /Wetted selectable.
- 4) Fuse rating 2Amp./5Amp.

Standard Relay Modules

DC Relay Module, 2 C/O Contact with fuse and fuse fail LED in each contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data			Relay Data			
Operating Voltage	12VDC	24VDC	Relay Make	Omron, G2RL Series or Equivalent		
Rated Current (mA)	40	25	Contact Type	2 Change Over		
Input Status LED/Ch	Green		Approvals			
Back emf Protection/Channel	Free-wheeling Diode		Relay Socket			
Positive/Negative Looping	User Selectable using Jumpers		Rated values	5A AC/ DC, 250V rms		
Output Data			Dielectric strength	2000V AC rms for 1 min.		
Contact Configuration	DPDT, Potential Free		Insulation resistance	1000MΩ at 500V DC		
Contact Current Rating	8 A at 250 VAC		Standard conformity	EN 60947-5-1/ IEC 947-5-1		
	8 A at 30 VDC		Ambient temperature	-45 to +120°C		
Max. switching voltage	440 VAC,300 VDC		General Data			
Mechanical operation	18,000 /hr		Ambient temperature	0°C to +60°C		
Electrical operation	1,800 /hr		Relative humidity	Max. 90% (Non-condensing)		
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.		PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B		
Protection	Fuse and Fuse fail LED in each contacts		Screw- Terminals	UL, CSA Standard & CE standard		
Termination Data			Mounting	Din Rail Mountable		
Terminal Type	Screw Terminal		Approval			
Nominal Current	24A		Ordering details			
Cross-section	2.5mm ²		Channel	Part Code	Ordering Code	Size in mm (L x W)
Rated Voltage	250V		4	UL24D04-OFI-2COB	086030400009	137 x 126
Rated surge Voltage	4KV		8	UL24D08-OFI-2COB	086010100026	266 x 126
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12		16	UL24D16-OFI-2COB	On request	-
Stripping Length	8mm					
Type of Insulation material	PA / I					
Tightening torque	0.6 Nm Max.					

Note: • Relay Coil Voltage with 48VDC,110VDC are available on request.

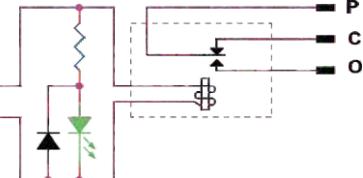
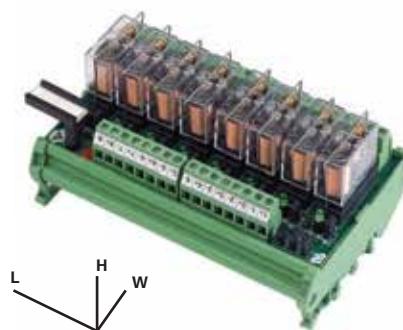
- Other option available in Relay modules such as
 - 1) Relay module with common -ve or common +ve looping only
 - 2) With Normally Open contacts
 - 3) Wetted contacts or Pot free /Wetted selectable.
 - 4) Fuse rating 2Amp./5Amp.

Standard Relay Modules

AC Relay Module with 1 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

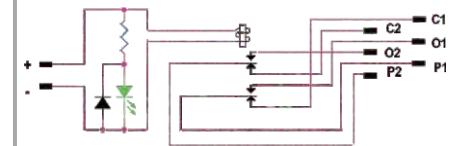
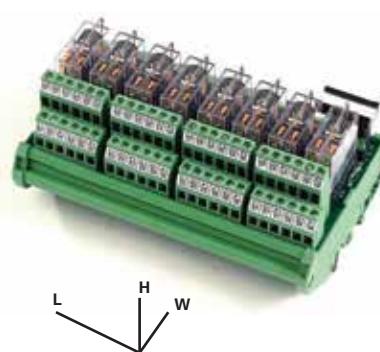
Input Data				Relay Data			
Operating Voltage	24VAC	110VAC	230VAC	Relay Make	Omron, G2R Series or Equivalent		
Rated Current (mA)	58.8	16.2	10.3	Contact Type	1 Change Over		
Input Status LED/Ch	Green			Approvals	   		
Back emf Protection/Channel	-			Relay Socket			
Positive/Negative Looping	-			Rated values	5A AC/DC, 250V rms		
				Dielectric strength	2000V AC rms for 1 min.		
				Insulation resistance	1000MΩ at 500V DC		
				Standard conformity	EN 60947-5-1/ IEC 947-5-1		
				Ambient temperature	-45 to +120 °C		
Output Data				General Data			
Contact Configuration	SPDT, Potential Free			Ambient temperature	0°C to +60°C		
Contact Current Rating	10 A at 250 VAC			Relative humidity	Max. 90% (Non-condensing)		
	10 A at 30 VDC			PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B		
Max. switching voltage	440 VAC, 300 VDC			Screw-Terminals	UL, CSA Standard & CE standard		
Mechanical operation	18,000 /hr			Mounting	Din Rail Mountable		
Electrical operation	1,800 /hr			Approval			
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.			Ordering details for 24VAC, 1C/O Relay Module			
Termination Data				Channel	Part Code	Ordering Code	Size in mm (L x W)
Terminal Type	Screw Terminal			4	UL24A04-COB	086030400025	77 x 90
Nominal Current	24A			8	UL24A08-COB	086010100031	134 x 90
Cross-section	2.5mm ²			Ordering details for 110VAC, 1C/O Relay Module			
Rated Voltage	250V			4	UL110A04-COB	086030400012	77 x 90
Rated surge Voltage	4KV			8	UL110A08-COB	086010100010	134 x 90
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12			16	UL110A16-COB	086010200003	267 x 90
Stripping Length	8mm			Ordering details for 230VAC, 1C/O Relay Module			
Type of Insulation material	PA/I			4	UL230A04-COB	086030400011	77 x 90
Tightening torque	0.6 Nm Max.			8	UL230A08-COB	086010100003	134 x 90
				16	UL230A16-COB	086010200004	267 x 90

Standard Relay Modules

AC Relay Module with 2 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage	24VAC	110VAC	230VAC
Rated Current (mA)	58.8	16.2	10.3
Input Status LED/Ch	Green		
Back emf Protection/Channel	-		
Positive/Negative Looping	-		

Output Data

Contact Configuration	DPDT, Potential Free
Contact Current Rating	5 A at 250 VAC
	5 A at 30 VDC
Max. switching voltage	440 VAC, 300 VDC
Mechanical operation	18,000 /hr
Electrical operation	1,800 /hr
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.

Termination Data

Terminal Type	Screw Terminal
Nominal Current	24A
Cross-section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Stripping Length	8mm
Type of Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Data

Relay Make	Omron, G2R Series or Equivalent
Contact Type	2 Change Over
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Standard conformity	EN 60947-5-1/ IEC 947-5-1
Ambient temperature	-45 to +120 °C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing).
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable
Approval	

Ordering details for 110VAC, 2C/O Relay Module

Channel	Part Code	Ordering Code	Size in mm (L x W)
1	UL110A01-2COB	On request	38 x 90
4	UL110A04-2COB	086030400035	102 x 90
6	UL110A08-2COB	086010100012	182 x 90

Ordering details for 230VAC, 2C/O Relay Module

1	UL230A01-2COB	086030100002	38 x 90
2	UL230A02-2COB	086030200008	60 x 90
4	UL230A04-2COB-V1	086010300001	102 x 90
8	UL230A08-2COB	086010100011	182 x 90

Ordering details for 24VAC, 2C/O Relay Module

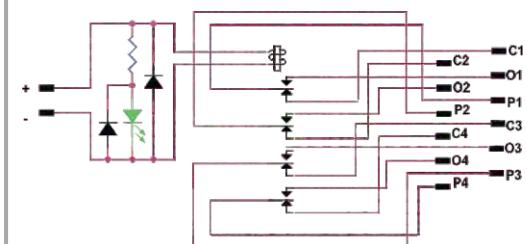
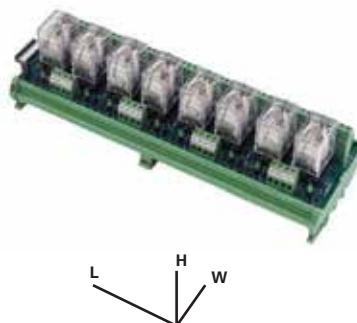
2	UL24A02-2COB	086030200030	62 x 90
4	UL24A04-2COB	086030400038	107 x 90
6	UL24A06-2COB	086030800001	152 x 90
8	UL24A08-2COB	086010100046	192 x 90

Standard Relay Modules

DC Relay Module with 4 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

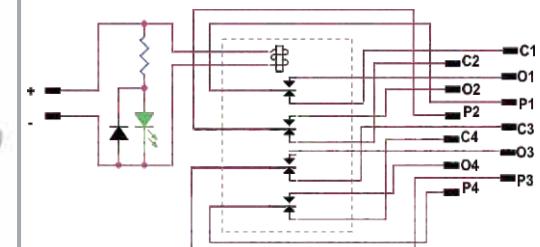
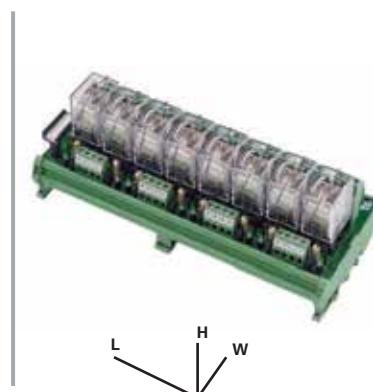
Input Data		Relay Data			
Operating Voltage	24VDC	Relay Make	Omron, MY4 Series or Equivalent		
Rated Current (mA)	42	Contact Type	4 Change Over		
Input Status LED/Ch	Green	Approvals	   		
Back emf Protection/Channel	Free-wheeling Diode	Relay Socket			
Positive/Negative Looping	User Selectable using Jumpers	Rated values	5A AC/DC, 250V rms		
Output Data		Dielectric strength	2000V AC rms for 1 min.		
Contact Configuration	4C/O, Potential Free	Insulation resistance	1000MΩ at 500V DC		
Contact Current Rating	3 A at 220 VAC	Standard conformity	EN 60947-5-1/ IEC 947-5-1		
	3 A at 24 VDC	Ambient temperature	-45 to +120 °C		
Max. switching voltage	250 VAC, 125 VDC	General Data			
Mechanical operation	18,000 /hr	Ambient temperature	0°C to +60°C		
Electrical operation	1,800 /hr	Relative humidity	Max. 90% (Non-condensing)		
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.	PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B		
Termination Data		Screw-Terminals	UL, CSA Standard & CE standard		
Terminal Type	Screw Terminal	Mounting	Din Rail Mountable		
Nominal Current	24A	Approval			
Cross-section	2.5mm ²	Ordering details for 24VDC, 4C/O Relay Module			
Rated Voltage	250V	Channel	Part Code	Ordering Code	Size in mm (L x W)
Rated surge Voltage	4KV	2	UL24D02-4COB	086030200006	80 x 90
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12	4	UL24D04-4COB	086030400015	140 x 90
Stripping Length	8mm	8	UL24D08-4COB	086010100016	267 x 90
Type of Insulation material	PA/ I				
Tightening torque	0.6 Nm Max.				

Standard Relay Modules

AC Relay Module with 4 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data		
Operating Voltage	110VAC	230VAC
Rated Current (mA)	16.2	10.3
Input Status LED/Ch	Green	
Back emf Protection/Channel	-	
Positive/Negative Looping	-	
Output Data		
Contact Configuration	4C/O, Potential Free	
Contact Current Rating	3 A at 220 VAC	
	3 A at 24 VDC	
Max. switching voltage	250 VAC, 125 VDC	
Mechanical operation	18,000 /hr	
Electrical operation	1,800 /hr	
Dielectric strength between Contacts	1,000V AC, 50/60Hz. 1 min.	
Termination Data		
Terminal Type	Screw Terminal	
Nominal Current	24A	
Cross-section	2.5mm ²	
Rated Voltage	250V	
Rated surge Voltage	4KV	
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12	
Stripping Length	8mm	
Type of Insulation material	PA/ I	
Tightening torque	0.6 Nm Max.	

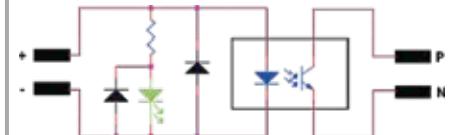
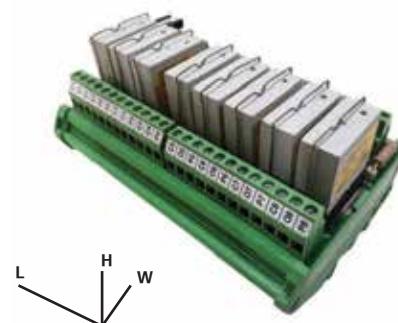
Relay Data			
Relay Make	Omron, MY4 Series or Equivalent		
Contact Type	4 Change Over		
Approvals	   		
Relay Socket			
Rated values	5A AC/ DC, 250V rms		
Dielectric strength	2000V AC rms for 1 min.		
Insulation resistance	1000MΩ at 500V DC		
Standard conformity	EN 60947-5-1/ IEC 947-5-1		
Ambient temperature	-45 to +120°C		
General Data			
Ambient temperature	0°C to +60°C		
Relative humidity	Max. 90% (Non-condensing)		
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B		
Screw-Terminals	UL, CSA Standard & CE standard		
Mounting	Din Rail Mountable		
Approval			
Ordering details for 110VAC, 4C/O Relay Module			
Channel	Part Code	Ordering Code	Size in mm (L x W)
2	UL110A02-4COB	086030200028	80 x 90
4	UL110A04-4COB	086010300005	140 x 90
8	UL110A08-4COB	086010100038	271 x 90
Ordering details for 230VAC, 4C/O Relay Module			
2	UL230A02-4COB	086030200007	80 x 90
4	UL230A04-4COB	086010100039	140 x 90
8	UL230A08-4COB	086010100037	271 x 90

Solid State Relay Modules

DC Output Solid State Relay Modules

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage	4-32VDC
Rated Current (mA)	4-16mA
Input Status LED/Channel	Green
Protection	Back emf diode for high frequency (ON/OFF Switching)
Positive/Negative Looping	User Selectable using Jumpers

Output Data

Output Voltage	60V DC
Contact Configuration	Normally Open
Contact Current Rating	3Amp.
Turn On Time	2.5mSec.
Turn Off Time	40uSec.
Input to Output Isolation	2.5kV for 1 min.

Solid State Relay Data

SSR Make	UL or Equivalent
Contact Type	Normally Open
Input Voltage	4-32VDC
Input Current	4-16mA
Load Current	3Amp
Inbuilt Input LED indication	Green LED
Output	5-100VDC
ON state voltage Drop	≤ 0.3VDC

Relay Socket

Rated values	5A AC/ DC, 250V rms
Insulation resistance	1000MΩ at 500V DC
Standard conformity	EN 60947-5-1/ IEC 947-5-1
Ambient temperature	-45 to +120°C

Termination Data

Terminal Type	Screw Terminal
Nominal Current	24A
Cross-section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
Type of Insulation material	PA/ I
Tightening torque	0.6 Nm Max.

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for Solid State Relay Module (Open collector output)

Channel Density		4	8	16
Protection	Contact Fuse	-	✓	-
	Fuse, LED	-	✓	-
Normally Open Contact		✓	✓	✓
Wetted Contact		-	-	-
Configuration	Source	✓	✓	✓
	Sink	✓	✓	✓
Current Consumption	105mA	105mA	205mA	205mA
Dimensions in mm(L X W)	74 x 90	87 x 126	134 x 90	132 x 126
Part No.	UL24D04-SSR-DC	UL24D04-OFI-SSR-DC	UL24D08-OFI-SSR-DC	UL24D16-SSR-DC
Ordering Code	08602010001	08602010002	08602020002	08602020004
				08602030001
				08602030002

Application Industry

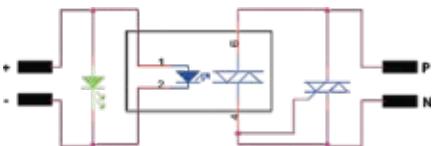
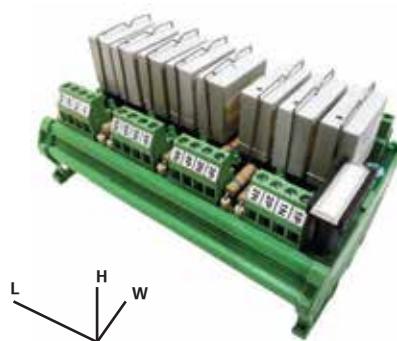


Solid State Relay Modules

AC Output Solid State Relay Modules

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage 12-30VDC

Rated Current (mA) 4mA

Input Status LED/Channel Green

Protection Inbuild Snubber

Positive/Negative Looping User Selectable using Jumpers

Output Data

Output Voltage 24-250VAC (50Hz)

Contact Configuration Normally Open

Contact Current Rating 3Amp.

PIV 800Vpk

I²T 340A2S for 1 min.

Input to Output Isolation 2.5kV for 1 min.

Solid State Relay Data

SSR Make UL or Equivalent

Contact Type Normally Open

Input Voltage 12-30VDC

Input Current 4mA

Load Current 3Amp

Inbuilt Input LED indication Green LED

Output 24-480VAC

Turn on time 20ms Approx.

Turn off time 25ms Approx.

Relay Socket

Rated values 5A AC/ DC, 250V rms

Dielectric strength 2000V AC rms for 1 min.

Insulation resistance 1000MΩ at 500V DC

Standard conformity EN 60947-5-1/ IEC 947-5-1

Ambient temperature -45 to +120 °C

Termination Data

Terminal Type Screw Terminal

Nominal Current 24A

Cross-section 2.5mm²

Rated Voltage 250V

Rated surge Voltage 4KV

Solid/ Stranded [mm²/ mm²] AWG 0.2-4/ 0.2-2.5/ 24-12

Type of Insulation material PA/ I

Tightening torque 0.6 Nm Max.

General Data

Ambient temperature 0°C to +60°C

Relative humidity Max. 90% (Non-condensing)

PCB design UL standard ANSI IPC 2221, 2222 & MIL 275B

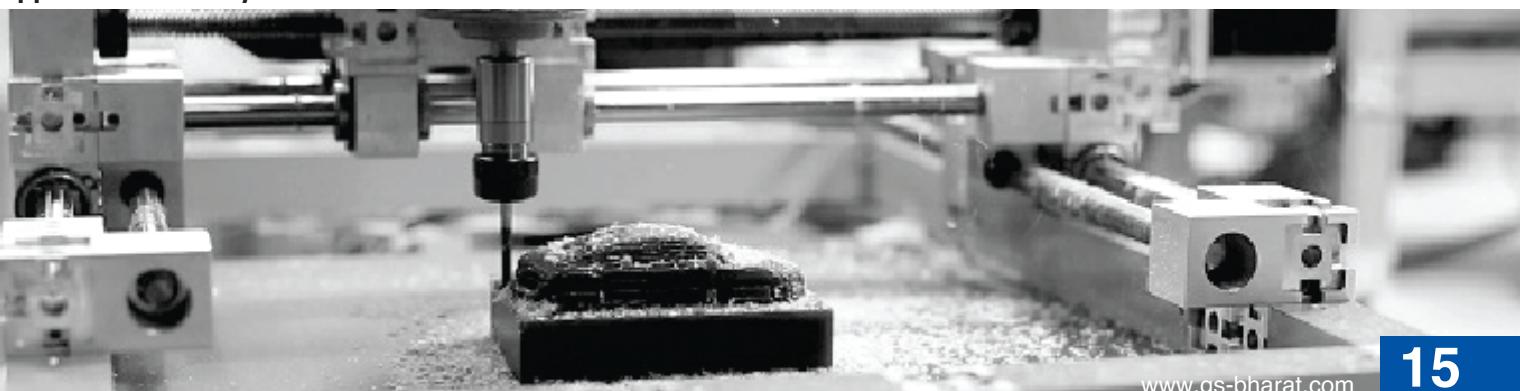
Screw- Terminals UL, CSA Standard & CE standard

Mounting Din Rail Mountable

Selection Matrix for Solid State Relay Module (Open collector output)

Channel Density	4	8	16	
Protection	Output Fuse -	✓	-	✓
	Fuse, LED -	✓	-	✓
Normally Open Contact	✓	✓	✓	✓
Wetted Contact	-	-	-	-
Configuration	Source ✓	✓	✓	✓
	Sink ✓	✓	✓	✓
Current Consumption	105mA	105mA	205mA	405mA
Dimensions in mm(L X W)	74 x 90	87 x 126	134 x 90	269 x 90
Part No.	UL24D04- SSR-AC	UL24D04-OFL- SSR-AC	UL24D08- SSR-AC	UL24D08-OFL-S SR-AC
Ordering Code	086020100001	086020100007	086020200008	086020200003
				086020300005
				086020300003

Application Industry

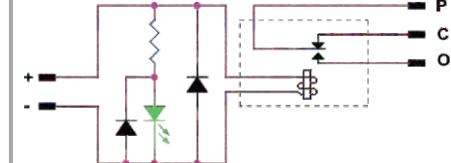
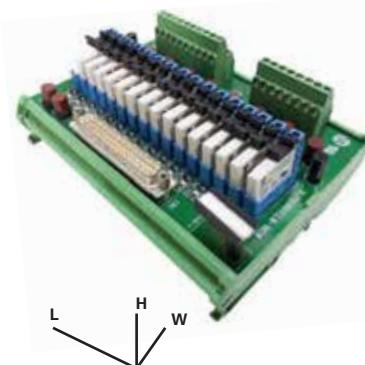


Slim Relay Modules

Slim Relay Module, 24VDC Coil, Single contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug In Type Relays.
- Interchangeable Looping at Input side using jumpers.
- Reduces Installation & commissioning time.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Input Data

Operating Voltage	24VDC
Rated Current (mA)	7mA
Input Status LED/Ch	Green
Back emf Protection/Channel	Free-wheeling Diode

Output Data

Contact Configuration	SPDT, Potential Free
Contact Current Rating	6 A at 250 VAC
	6 A at 24 VDC
Max. switching voltage	400 VAC/250 VDC
Max. Operating Frequency	360 Cycles/hour
Max. Operating Frequency at No Load	72000 Cycles/hour
Dielectric strength Contact	1,000V AC, 50/60Hz

Termination Data

Terminal Type	Screw Terminal
Nominal Current/Cross Section	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Stripping Length	8mm
Type of Insulation material	PA/ I
Tightening torque	0.6 Nm Max.

Relay Data

Relay Make	Relpol or Equivalent
Contact Type	1 Change Over
Approvals	   

Relay Socket

Rated values	6A, 250V
Dielectric strength	≥6kv (1.2/50us) between coil & contacts
Insulation resistance	1000MΩ at 500V DC
Protection Category	IP20
Ambient temperature	-40 to +70°C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 1 C/O Solid State Relay Digital Output Interface Module (Non-redundant)

Channel Density		8	16	32
Protection	Contact Fuse	-	✓	-
	Fuse, LED	-	✓	-
Pot-free Contact	✓	✓	-	✓
Wetted Contact	-	-	-	-
Normally Open Contact	-	✓	-	✓
Configuration	Source	✓	✓	✓
	Sink	-	-	-
Current Consumption	96mA	96mA	196mA	192mA
Dimensions in mm(L X W)	67 X 126	105 x 126	132 x 126	217 x 126
Part No.	ULSLM08-C	ULSLM08-OFI-NO-V1	ULSLM16-NO	UL24D16DOSLM-1NOW-P
Ordering Code	086010100047	086010100018	086010200021	085030300088
				085030400006
				085030400001

Modular Wiring Solutions

Digital Input Field Interface Modules for 24VDC Field Interrogation

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	24VDC
Configuration	Single Ended/ 2-wire (user to specify)
Protection	Short Circuit
Input Status LED/Channel	Green LED if applicable
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Low going/High going (User to specify)
Termination	25/37 Pin D-Sub Connector

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

Auxiliary Power Supply

Field Power Supply	24VDC
System Power supply	24VDC

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 24VDC, Digital Input Field Interface Module (Non-redundant)

Channel Density	8	16	32
Protection	Fuse, 100mA	✓	✓
	Fuse, LED	✓	✓
Isolation	Relay	-	✓
	Opto-Isolation	-	-
Configuration	High going	✓	✓
	Low going	-	-
Current Consumption	210mA	10mA	410mA
Dimensions in mm(L X W)	107X126	141X126	232X90
Part No.	UL08DIFI-D15-VF-CMPT	UL16DIFI-D25-VF-CMPT	UL24D16DI-C-D25-RDG
Ordering Code	085010100006	085010200007	210316110009800
			UL16DIFI-C-D25-V1-XOR
			085010200022
			UL32DIFI-D37-VF-CMP
			085010300001

Selection Matrix For 24VDC, Digital Input Field Interface Module (Redundant)

Channel Density	8	16	32
Protection	Fuse, 100mA	✓	✓
	Fuse, LED	-	-
Isolation	Relay	-	✓
	Opto-Isolation	-	-
Configuration	High going	✓	✓
	Low going	-	-
Current Consumption	-	5mA	410mA
Dimensions in mm(L X W)	110X126	172X126	269X90
Part No.	UL08DIFI-RED-D15	UL16DIFI-RED-D25-VF-CMPT-SK	UL24D16DI-RED-2C-D25
Ordering Code	085010100012	085020200031	085020200005
			UL32DIFI-RED-D37-VF-CMPT
			085020300001

Note: In Digital Input Field Interface module wide range of permutations & combinations are available.

• Digital Input Field Interface Module with Single ended field wiring configuration are available on request.

• DI FIM with active isolation (Relay/Opto-Isolation) are available with fuse & fuse blown LED Indication in field input of each channel

www.gs-bharat.com

Modular Wiring Solutions

Digital Input Field Termination Assembly with 24VDC Field Interrogation for differential type DI module

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	24VDC
Configuration	Single Ended/ 2 Wire (user to specify)
Protection	Short Circuit
Input Status LED/Channel	Green LED if applicable
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5A per contact
Contact Resistance	≤ 10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Differential
Termination	25/37 Pin D-Sub Connector

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

Field Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for Digital Input Field Termination Assembly, 24VDC field interrogation (Non-redundant)

Channel Density			16	
Protection	Fuse, 100mA	√	√	√
	Fuse, LED	√	-	√
Isolation	Relay	-	√	√
	Opto-Isolation	-	-	-
Current Consumption		20mA	410mA	410mA
Dimensions in mm (L X W)		141X126	242X126	264X126
Part No.	UL16DIFI-FTA-D37-VF-CMPT-V2	UL16DIFI-FTA-C-D37-XOR	UL24D16DIFI-FTA-C-D37	
Ordering Code	085010200108	085010200047	085010200045	

Selection Matrix for Digital Input Field Termination Assembly, 24VDC field interrogation (Redundant)

Channel Density			16	
Protection	Fuse, 100mA	√	-	
	Fuse, LED	√	-	
Isolation	Relay	-	√	-
	Opto-Isolation	-	-	-
Current Consumption		-	26mA	
Dimensions in mm(L X W)		182 X126	257 X126	
Part No.	UL16DIFI-RED-FTA-D37	UL16DIFTA2CO-2D37		
Ordering Code	08502020016	085010200157		

Note: In Digital Input Field Termination Assembly wide range of permutations & combinations are available.

- Digital Input Field Termination Assembly with Single ended field wiring configuration are available on request.
- DI FTA with active isolation (Relay/Opto-Isolation) are available with fuse & fuse blown LED Indication in field input of each channel

Modular Wiring Solutions

Digital Input Field Interface Modules for 110VAC Field Interrogation

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	110VAC
Configuration	Single Ended/ 2 Wire (user to specify)
Protection	Short Circuit/RC
Input Status LED/Channel	Green LED
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤ 10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Low Going/High Going (User to specify)
Termination	25/37 Pin D-Sub Connector

Relay Data

Relay Make	Omron, G2R Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

Auxiliary Power Supply

Field Power Supply	110VAC
System Power Supply	24VDC

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix For 110VAC, Digital Input Field Interface Module (Non-redundant)

Channel Density		16				
Protection	Fuse, 100mA	-	√	√	√	√
	Fuse, LED	-	√	√	-	√
Isolation	Relay	√	√	√	-	√
	Opto-Isolation	-	-	-	√	-
Configuration	High going	√	√	√	√	√
	Low going	-	-	-	-	-
Current Consumption	160mA			400mA	200mA	160mA
Dimensions in mm (L X W)	277X90	274X126		330X126	232 X126	347X126
Part no.	UL110A16-DI-CD25	UL110A16-DIFI-CD25		UL110A16DIFI-INT-RDG-C-D25-SNB	UL110A16DI-ISO-CON-D25	UL110A16DI-AT-RED-D25-2C
Ordering Code	085010200158	085010200159		085010200160	091020100048	085020200032

Note: In Digital Input Field Interface module wide range of permutations & combinations are available.

- Digital Input Field Interface Module with Single ended field wiring configuration are available on request.
- DI FIM with active isolation (Relay/Opto-Isolation) are available with fuse & fuse blown LED Indication in field input of each channel

Digital Input Field Interface Modules for 230VAC Field Interrogation

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	230VAC
Configuration	Single Ended/ 2 Wire (user to specify)
Protection	Short Circuit/RC
Input Status LED/Channel	Green LED
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤ 10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Low going/High going (User to specify)
Termination	25/37 Pin D-Sub Connector

Relay Data

Relay Make	Omron, G2R Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

Auxiliary Power Supply

Field Power supply	230VAC
System Power supply	24VDC

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 230VAC, Digital Input Field Interface Module (Non-redundant)

Channel Density		16					
Protection	Fuse, 100mA	-	-	√	√	√	√
	Fuse, LED	-	-	√	√	-	√
Isolation	Relay	√	√	√	√	-	√
	Opto-Isolation	-	-	-	-	√	-
Configuration	High going	√	√	-	-	√	√
	Low going	-	-	√	√	-	-
Current Consumption	160mA	160mA	400mA	400mA	200mA	200mA	
Dimensions in mm(L X W)	277X90	242X126	330X126	330X126	232 X126	347X126	
Part No.	UL230A16DI-CD25	UL230A16DIFI-CD25	UL230A16DIFI-INT-RDG-C-D25-SNB	UL230A16DIFI-INT-RDG-SSR-D25-SNB	UL230A16DI-ISO-CON-D25	UL230A16DI-AT-RED-D25-2C	
Ordering Code	085010200091	085010200148	085010200072	085010200166	091020100016	085020200033	

Note: In Digital Input Field Interface module wide range of permutations & combinations are available

- Digital Input Field Interface Module with Single ended field wiring configuration are available on request.
- DI FIM with active isolation (Relay/Opto-Isolation) are available with fuse & fuse blown LED Indication in each field input channel available on request.

Modular Wiring Solutions

Digital Input Field Termination Assembly with 110VAC /230VAC Field Interrogation for differential type DI module

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Voltage	110VAC
Configuration	Single Ended/ 2 Wire (user to specify)
Protection	Short Circuit /RC
Input Status LED/Channel	Green LED
Fuse Fail LED/Channel	Red LED
Termination	Screw Terminals

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	$\leq 10\text{m}\Omega$
Insulation Resistance	$\geq 5000\text{ M}\Omega$
Maximum Voltage	1000 Vrms

System Output Data

Output Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Configuration	Differential
Termination	25/37 Pin D-Sub Connector

Relay Data

Relay Make	Omron, G2R Series or Equivalent
Contact Type	1 Change Over
Approvals	   

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000M Ω at 500V DC
Ambient temperature	-45 to +120°C

Field Power Supply

Aux Voltage	110VAC/230VAC
Power ON Status	Green LED

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 16 Channel 110VAC, 230VAC Digital Input Field Termination Assembly (Non-redundant)

Operating Voltage Rating		110VAC		230VAC	
Protection	Fuse, 100mA	✓	-	✓	-
	Fuse, LED	✓	-	✓	-
Isolation	Relay	✓	✓	✓	✓
	Opto-Isolation	-	-	-	-
Current Consumption	240mA	480mA	320mA	400mA	
Dimensions in mm (L X W)	237X126MM	232x126	237X126MM	232x126	
Part No.	UL110A16DIFTA1CO-D37	UL110A16DIFTA1CO-D37SNB	UL230A16DIFTA1CO-D37	UL230A16DIFTA1CO-D37SNB	
Ordering Code	085010200049	085010200163	085010200165	085010200164	

Note: In Digital Input Field Termination Assembly wide range of permutations & combinations are available.

- Digital Input Field Termination Assembly with Single ended field wiring configuration are available on request.
- Digital Input Field Termination Assembly for 110VAC/230VAC field interrogation with redundancy available on request.
- DI 110VAC/230VAC FTA with active isolation (Relay/Opto-Isolation) & Snubber protection with fuse & fuse blown LED Indication in each field Input channel is available on request

Modular Wiring Solutions

Digital Output Relay Interface Modules, 1 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Input Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Input Status LED/Channel	Green LED
Protection	Back emf
Signal Configuration	Sink/Source (User to specify)
Termination	15/25 Pin D-Sub Connector

Field Output Data

Output Signal Voltage	24VDC/110VAC/230VAC
Signal Configuration	Pot-free/Wetted (user to specify)
Contact Configuration	SPDT, 1 Changeover
Contact Current Rating	12 Amp. @ 250VAC/24VDC
Protection	Short Circuit
Fuse Type	Glass Fuse
Fuse Fail LED/Channel	Red LED

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Side Power Supply

Aux Voltage	24VDC/110VAC/230VAC
Power ON Status	Green LED

System Side Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10m Ω
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	SPDT, 1 Changeover
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120 °C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 1 C/O Digital Output Relay Interface Module (Non-redundant)

Channel Density	8	16
Protection	Contact Fuse Fuse, LED	-
Pot-free Contact	√	√
Wetted Contact	-	-
Configuration	Source Sink	√
Current Consumption	210mA	410mA
Dimensions in mm (L X W)	147 X 90	272 X 90
Part No.	UL24D08DO-C-D15-R1	UL24D16DO-C-D25-CMPT
Ordering Code	085030100016	085030300054
		UL16DOFI-CD25-VF-CMPT-XOR
		085030300133
		UL24D16DOWFI-COB
		085030300134
		UL24D16DOFI-PF-WT-C-D25
		085030300135

Selection Matrix for 1 C/O Digital Output Relay Interface Module (Redundant)

Channel Density	16
Protection	Contact Fuse Fuse, LED
Pot-free Contact	√
Wetted Contact	-
Configuration	Source Sink
Current Consumption	410mA
Dimensions in mm (L X W)	277X126
Part No.	UL16DORED-CD25-OB
Ordering Code	085040300003
	UL16DOPS-RED-C-D25
	085040300031
	UL16DORED-CD25-OB-SK
	085040300035

Note: Digital Output Relay Interface modules are available in wide permutations & combinations.

- Other combination if any can be available on request.

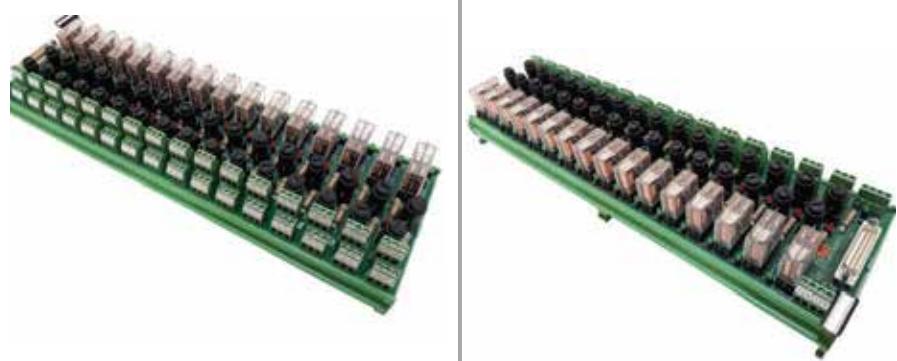
- Pot free Relay Contact Fuse Rating will be 5A & Wet Contact fuse rating will be 2A or please specify.

Modular Wiring Solutions

Digital Output Relay Interface Modules, 2 C/O Contact

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Input Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Input Status LED/Channel	Green LED
Protection	Back emf
Signal Configuration	Sink/Source (User to specify)
Termination	25 Pin D-Sub Connector

Field Output Data

Output Signal Voltage	24VDC/110VAC/230VAC
Signal Configuration	Pot-free/Wetted (user to specify)
Contact Configuration	DPDT, 2 Changeover
Contact Current Rating	8 Amp. @ 250VAC/24VDC
Protection	Short Circuit
Fuse Type	Glass Fuse
Fuse Fail LED/Channel	Red LED

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Side Power Supply

Aux Voltage	24VDC/110VAC/230VAC
Power ON Status	Green LED

System Side Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	DPDT, 2 Changeover
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120 °C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for 2C/O Digital Output Relay Interface Module (Non-redundant)

Channel Density		16						
Protection	Contact Fuse Fuse, LED	-	-	-	-	√	√	√
Pot-free Contacts	1 st C/O	√	-	√	√	-	-	√
	2 nd C/O	√	-	-	√	-	-	-
Wetted Contacts	1 st C/O	-	√	-	-	√	-	-
	2 nd C/O	-	√	√	-	√	-	√
Current Consumption	410mA	410mA	410mA	410mA	410mA	410mA	410mA	410mA
Dimensions in mm (L X W)	257 X 126	267 X 126	268 X 126	372 X 126	442 X 126	396 X 126		
Part No.	UL24D16D025M-2C-OB	UL24D16D0-WT-2C-D25	UL24D16DOPSRED-1W1CO-2C-D25	UL24D16DO-OFI-2C-D25	UL24D16D02WFI-2C-D25-24VDC	UL24D16D01WF1COF-D25		
Ordering Code	085030300031	085030300021	085040300008	085030300032	085030300099	085030300063		

Selection Matrix For 2C/O Digital Output Relay Interface Module (Redundant)

Channel Density		16						
Protection	Contact Fuse Fuse, LED	-	-	-	-	√	√	√
Pot-free Contacts	1 st C/O	√	-	√	-	√	√	√
	2 nd C/O	√	-	-	-	√	-	-
Wetted Contacts	1 st C/O	-	√	√	√	-	-	√
	2 nd C/O	-	√	-	√	-	-	-
Current Consumption	410mA	410mA	410mA	410mA	410mA	410mA	410mA	410mA
Dimensions in mm (L X W)	267 X 126	302 X 126	265 X 126	408 X 126	454 X 126	302X126		
Part No.	UL16REDDO-2C-D25-PSRED	UL24D16DORED-WT-2C-D25	UL24D16DORED-1W1CO-2CD25	UL24D16DO-RED-2WF-2C-D25	UL24D16DO-RED-2PF-2C-D25	UL24D16DO-RED-1WF1CO-D25-2C-SK-SC		
Ordering Code	085040300028	085040300025	085040300017	085040300026	085040300004	085030300075		

Note: Digital Output Relay Interface modules are available in wide permutations & combinations.

- Other combination if any can be available on request.
- Pot free Relay Contact Fuse Rating will be 5A & Wet Contact fuse rating will be 2A or please specify.

Modular Wiring Solutions

Digital Output Relay Field Termination Assembly using 1 C/O Relays for Differential type Digital Output module

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Input Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Input Status LED/Channel	Green LED
Protection	Back emf
Signal Configuration	Differential
Termination	37 Pin D-Sub Connector

Field Output Data

Output Signal Voltage	24VDC/110VAC/230VAC
Signal Configuration	Pot-free/Wetted(user to specify)
Contact Configuration	SPDT, 1 Change over
Contact current rating	12 Amp. @ 250VAC/24VDC
Protection	Short Circuit
Fuse Type	Glass Fuse
Fuse Fail LED/Channel	Red LED

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Side Power Supply

Aux Voltage	24VDC/110VAC/230VAC
Power ON Status	Green LED

System Side Power Supply

Aux Voltage	-
Power ON Status	-

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 V rms

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	SPDT, 1 Changeover
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for Digital Output Relay Field Termination Assembly with 1 C/O contact for differential type digital output module (Non-redundant)

		16			
Protection	Contact Fuse	-	✓	✓	-
	Fuse, LED	-	✓	✓	-
Pot-free Contact		✓	✓	-	-
Wetted Contact		-	-	✓	✓
Current Consumption	410mA	410mA	410mA	410mA	410mA
Dimensions in mm (L X W)	254 X 126	269 X 126	282 X 126	277 X 126	
Part No.	UL24D16DOFTA-CD37	UL16DOFTA-CFI-C-D37-VF-CMPT-XOR	UL16DOFTAWFI-C-D37-VF-CMPT-XOR	UL24D16DO-WT-FTA-CD37 SNB	
Ordering Code	085030300073	085030300126	085030300128	085030300089	

Note: Digital Output Relay Field Termination Assembly are available in wide permutations & combinations.

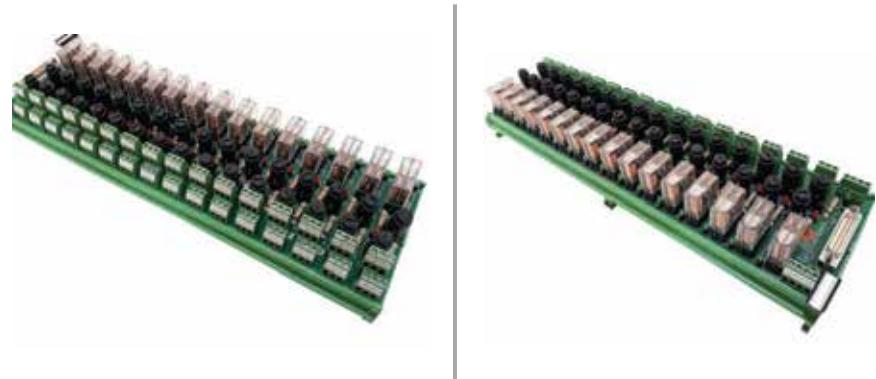
- Other combination if any can be available on request.
- Pot free Relay Contact Fuse Rating will be 5A & Wet Contact fuse rating will be 2A or please specify.

Modular Wiring Solutions

Digital Output Relay Field Termination Assembly using 2 C/O Relays for Differential type Digital Output module

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Input Signal Voltage	24VDC
Signal Mode	Non-Redundant or Redundant (user to specify)
Input Status LED/Channel	Green LED
Protection	Back emf
Signal Configuration	Differential
Termination	37 Pin D-Sub Connector

Field Output Data

Output Signal Voltage	24VDC/110VAC/230VAC
Signal Configuration	Pot-free/Wetted (user to specify)
Contact Configuration	DPDT, 2 Changeover
Contact Current rating	8 Amp. @ 250VAC/24VDC
Protection	Short Circuit
Fuse Type	Glass Fuse
Fuse Fail LED/Channel	Red LED

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Side Power Supply

Aux Voltage	24VDC/110VAC/230VAC
Power ON Status	Green LED

System Side Power Supply

Aux Voltage	-
Power ON Status	-

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Relay Data

Relay Make	Omron, G2R L Series or Equivalent
Contact Type	DPDT, 2 Change over
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120 °C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

Selection Matrix for Digital Output Relay Interface Module with 2 C/O contact for differential type digital output module (Non-redundant)

Channel Density		16					
Protection	Contact Fuse	-	-	✓	✓	✓	✓
	Fuse, LED	-	-	✓	-	✓	✓
Pot-free Contacts	1st C/O	✓	-	✓	-	-	-
	2nd C/O	✓	-	✓	✓	✓	✓
Wetted Contacts	1st C/O	-	✓	-	✓	✓	✓
	2nd C/O	-	✓	-	-	-	-
Current Consumption	410mA	410mA	410mA	410mA	410mA	410mA	410mA
Dimensions in mm(L X W)	258 X 126MM	276 X 126MM	357 X 126MM	357 X 126MM	272X126MM	352 X 126MM	
Part No.	UL16DOFTA2CO-D37	UL16DOFTA2WT-D37	UL16DOFTA-OFI-2C-D37	UL16DOFTA1WF1CO-D37	UL24D16DO-FTA-1WF1CO-D37 VF CMPT	UL16DOFTA1WF1CFI-D37	
Ordering Code	085030300017	085030300111	085030300015	085030300011	085030300030	085030300020	

Selection Matrix for Digital Output Relay Interface Module with 2 C/O contact for differential type digital output module (Redundant)

Channel Density		16	
Protection	Contact Fuse	-	✓
	Fuse, LED	-	✓
Pot-free Contacts	1 st C/O	✓	-
	2 nd C/O	✓	✓
Wetted Contacts	1 st C/O	-	✓
	2 nd C/O	-	-
Current Consumption	410mA	410mA	410mA
Dimensions in mm(L X W)	262 X 126	352 X 126	
Part No.	UL16DOREDFTA2CO-D37	UL16DOREDFTA1WF1CFI-D37	
FIM Ordering Code	085040300013	085040300019	

Note: Digital Output Relay Field Termination Assembly are available in wide permutations & combinations.

• Other combination if any can be available on request.

• Pot free Relay Contact Fuse Rating will be 5A & Wet Contact fuse rating will be 2A or please specify.

Modular Wiring Solutions

Analog Input Field Interface Modules with 2-Wire & 4-wire Configuration

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- 2Wire /4 Wire user selectable
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data

Input Signal Level	4-20mA
Field Wiring	2-Wire /4-Wire (user selectable)
Protection	Short Circuit
Fuse Rating/Channel	100mA
Fuse Fail LED/Channel	Red LED in 2-Wire Configuration
Isolation (Refer selection matrix)	3 way Isolation (Optical) Channel to Channel, Input to Output Power Supply to Field Channel
Termination	Screw Terminals

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A
Wire Cross section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

System Output Data

Output Signal Level	4-20mA/1-5V (user to specify)
Signal Configuration	Single Ended/Differential Type (user to specify)
Signal Mode	Non-Redundant/ Redundant
Termination	25 Pin D-Sub Connector

General Data

Ambient temperature	0°C to +60°C
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Auxiliary Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

Selection Matrix for Analog Input Field Interface Module (Non-Redundant)

Channel Density	4	8	16	
Protection	Fuse, 100mA	✓	✓	✓
	Fuse, LED	✓	✓	-
	Fuse in 4-Wire	-	✓	-
Signal Output (1-5V)	-	-	-	-
Galvanic Isolation	-	-	✓	-
Current Consumption	15mA	10mA	200mA	20mA
Dimensions in mm (L X W)	82X126MM	96X126MM	182x126MM	165X126MM
Part No.	UL04AI-2WFI-4WF-D15-V-SPD	UL08AI-2WFI-4WF-D25-VF-CMPT	UL08AI-2W4W-ISO-D25-4W.	UL16AI-2WFI-4WF-D37-VF-CMPT
Ordering Code	085050100001	085050200001	091020100022	085050400001

Selection Matrix For Analog Input Field Interface Module (Redundant)

Channel Density	8	16	
Protection	Fuse, 100mA	✓	✓
	Fuse, LED	✓	-
	Fuse in 4-Wire	✓	-
Signal Output (1-5V)	-	-	-
Galvanic Isolation	-	✓	✓
Current Consumption	10mA	960mA	1110mA
Dimensions in mm (L X W)	152X90MM	110x126	332X126
Part No.	UL08AI-RED-D25-SPD-I-I-72-VF	UL08AI-RED-2W4W-ISO-D25	UL16AI-4W-ISO-RED-D37-4W
Ordering Code	085060100002	091020100034	091020100011
			UL16AI-RED-D37-SPD-I-I-VF-6.8V
			085060200001

Note: Analog Input field interface module with Isolation is having inbuilt resettable fuse protection and current limiting.

Analog Output Field Interface Modules with fuse protection

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Reduces Installation & commissioning time.
- Available Sink and Source type
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Input Signal Level	4-20mA
Signal Configuration	Sink or Source Current Output (user to specify)
Signal Mode	Non-Redundant/Redundant
Termination	15/25 Pin D-Sub Connector

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A
Wire Cross section	2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Output Data

Output Signal Level	4-20mA
Protection	Short Circuit
Fuse Rating/Channel	100mA
Fuse Fail LED/Channel	Red LED
Isolation (Refer selection matrix)	3 way Isolation (Optical) Channel to Channel, Input to Output Power Supply to field Channel
Termination	Screw Terminals

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

System Side Termination

Terminal Type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤ 10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Auxiliary Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

Selection Matrix For Analog Output Field Interface Module (Non-Redundant)

Channel Density		4	8	
Protection	Fuse, 100mA	✓	✓	✓
	Fuse, LED	-	✓	-
Galvanic Isolation		-	-	✓
Current Consumption				960mA
Dimensions in mm (L X W)	77 X 90MM	82 X126MM	92 X 126M	182 X 126MM
Part No.	UL04AO-D15S7	UL04AOFI-D15S7-SPD	UL08AOFI-D25-VF-CMPT	UL08AO-ISO-D25-SRC.
FIM Ordering Code	085070100004	085070100003	085070200002	091020100025

Selection Matrix For Analog Output Field Interface Module (Redundant)

Channel Density		1	4	8
Protection	Fuse, 100mA	✓	✓	✓
	Fuse, LED	✓	-	-
Galvanic Isolation		✓	-	-
Current Consumption	120mA		480mA	960mA
Dimensions in mm (L X W)	45X126MM	125X126MM		182X126MM
Part No.	UL01AO-ISO-RED-TB-SRC.	UL04AO-RED-D15-SRC		UL08AO-RED-D25-SRC.
FIM Ordering Code	091020100020	091020100013		091020100018

Note: Analog output Redundant field interface modules with Isolation has in-built resettable fuse & current limiting

Special DI LFD Module

Digital Input Field Interface Modules with Line Fault detection (LFD) and Alarm Contact

Features:

- Fast traceability of fault /healthy status through Channel-wise LED indications.
- LED Indication for Wire break, Short Circuit, Signal healthy.
- Fault Alarm contact for each channel/ group of eight.
- Fault detection is done using external EOL Resistance Network.
- Fault status & signal status on Modbus (refer selection matrix).
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

Field Input Data		System Side Termination	
Field Interrogation Voltage	24VDC	Terminal Type	D-Sub Connector/ Screw terminal
Field Wiring Configuration	Two wire interrogation	MSTB Plug-in type	
Protection	Current limiting	Contact Material	Copper Alloy
Status Indication	Green LED for Input Status	Operating Current	5 A per contact
	Red LED for Wire Break	Contact Resistance	$\leq 10m\Omega$
	Orange LED for Wire Open	Insulation Resistance	$\geq 5000 M\Omega$
External EOL Resistor termination on field	Series & Parallel Resistor network across field pot free contact (Refer selection matrix)	Maximum Voltage	1000 Vrms
Termination	Screw Terminals	Field Side Termination	
System Output Data		Terminal Type	Screw Terminal
Output Signal Voltage	24VDC	Nominal Current /Sq.mm	24A/ 2.5mm ²
Signal Mode	Redundant /Non. Redundant	Rated Voltage	250V
Configuration	High going	Rated surge Voltage	4KV
Alarm contact	Alarm contacts	Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Termination	25 Pin D-Sub Connector or MSTB Screw type Plug in connector	Insulation material	PA/I
Auxiliary Power Supply		Stripping Length	8mm
Field Power Supply	24VDC	Tightening torque	0.6 Nm Max.
System Power supply	24VDC	General Data	
		Ambient temperature	0°C to +60°C
		Relative humidity	Max. 90% (Non-condensing)
		PCB design	UL,ANSI IPC 2221,2222 & MIL 275B
		Screw- Terminals	UL, CSA Standard & CE standard
		Mounting	Din Rail Mountable

Selection Matrix for 24VDC, Digital Input Line Fault Detection Interface Module

Channel Density	16	8	8
Protection	Current Limiting	✓	✓
Redundancy	Healthy Signal	✓	-
	Fault Signal	✓ (group of 8)	✓ (Per channel)
Alarm Contact (fault status)	D sub connector	-	-
	On Screw Terminal	✓ (group of 8)	✓ (Per channel)
	On Modbus Port	-	-
Suitable EOL Resistor network	1K Series, 10K Parallel	1K Series, 10K Parallel	Series 3.3K, Parallel 6.8K
Current Consumption	280mA	160mA	300mA
Dimensions in mm(L X W)	312 x 126	202X126	130 x 126
Part No.	UL16DI-RED-WFD-D25	UL24D08DIWFD-2C20	UL08DIF-D25-LFD-MOD
Ordering Code	085010200142	085010100001	091020100015

Note: In Digital Input Field Interface module wide range of permutations & combinations are available.

- DI LFD Module with only LED Indication for short circuit & open circuit available on require.
- DI LFD Module with 2 alarm contact for group of 8 channel can be assigned to 2 DI channel of PLC for feedback.
- DI LFD Module with alarm contact for each channel require additional DI channels for fault feedback on controller.
- DI LFD Module with fault status read on modbus if used than additional DI channel for fault feedback is not required.
- EOL Resistors network is in customer scope OR EOL resistor board available on request.

Current Signal Isolator



Features:

- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Digital Indication option with/without control relay outputs
- Rugged, industrial grade ABS enclosure

Technical Specification:

Type	Analog signal Isolator.
Principle	Optical Isolation and Signal Conditioning and Amplification
Input Signals	4 to 20 mA DC
Output Signal	4 to 20 mA DC
Load Driving Capacity	600 Ohms.
Isolation type	Optical and Galvanic.
Isolation level	1.5 kV
Indication	Red LED for Power On.
Output protection	Short / Open Circuit protection.
Calibration facility	Zero and Span settings [external].
Power Supply	24VDC [Optionally 20 to 70 V DC].
Power Consumption	1 Watt
Dimensions [Hx W x D].	75 x 22.6 x 170 mm.
Execution	DIN-Rail mounting.
Operating Temperature	0 to + 55°C.
Part no.	UL-TX330-I-D-N
Ordering Code	091010100047

Voltage Signal Isolator



Features:

- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Digital Indication option with/without control relay outputs
- Rugged, industrial grade ABS enclosure

Technical Specification:

Type	DC Voltage Signal Isolator
Principle	Optical Isolation and Signal Conditioning.
Input Signals	0 to 10 Volts DC [or as required].
Output Signal	0 to 10 Volts DC [or as required].
Isolation type	Optical and Galvanic.
Isolation level	1.5 kV rms for one minute.
Output protection	Short / Open Circuit protection.
Calibration facility	Zero and Span settings [external].
Indication	Red LED for Power On.
Power Supply	85 to 270 V AC, 50 Hz [Optionally 20 to 70 V DC].
Power Consumption	3 Watt
Dimensions [H x W x D].	100 x 22 x 110 mm.
Execution	DIN-Rail mounting.
Operating Temperature	0 to + 50°C.
Part no.	UL-TX235-I-S-N
Ordering Code	091010100056

Signal Isolating Repeater



Features:

- Optical & Galvanic Isolation between Input, Output & Power Supply
- High accuracy and linearity to input signal
- Very low power consumption and heat dissipation
- Options of multiple [upto four] isolated outputs
- Rugged, industrial grade ABS enclosure

Technical Specification:

Type	Analog Signal Isolating Multiplier (Repeater /Splitter).
Principle	Optical Isolation and Signal Conditioning and Amplification
Input Signals	4 to 20 mA DC [or as required].
Output Signal	Two isolated and buffered outputs of 4 to 20 mA DC
Load Driving Capacity	600 Ohms.
Isolation type	Optical and Galvanic.
Isolation level	1.5 kV rms for one minute.
Output protection	Short / Open Circuit protection.
Calibration facility	Zero and Span settings [external].
Indication	Red LED for Power On.
Power Supply	90 to 270 VAC 50/60 Hz [Optionally 20 to 70 V DC].
Power Consumption	1.8 Watt
Dimensions [H x W x D].	100 x 22 x 110 mm.
Execution	DIN-Rail mounting.
Operating Temperature	0 to + 50°C.
Part no.	UL-TX232-LLHN
Ordering Code	091010100035

Passive Interface Modules

Passive Interface Modules (D sub to Screw Terminals)

Features:

- Elimination of single core wiring, connection through Prefab plug-in Cable.
- Reduce Installation & assembly time.
- Available with D sub male/ female to terminals.
- Connection one to one.
- Compact in design.
- Universal Rail mounting.



Technical Data:

General Data

Number of Positions	15, 25, 37, 50
Operating Voltage	Max. 60V AC/DC
Current Rating / Channel	2 Amp.
Test Voltage	500V, 1min
Terminations	Control Side D Sub Male/ Female Connector. Field Side Screw Type Terminals
Connection Type	Control Side Multicore Shielded/Non-Shielded Cable 15 to 50 Core Field Side Wire Size 0.2mm ² - 2.5mm ²
Environment/ Compliance Data	
Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

System Side Termination

Plug-in Connector type	D-Sub Connector
Contact Material	Copper Alloy
Operating Current	5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	1000 Vrms

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Ordering Details

D-Sub Female Connector Positions.	15	25	37	50
Dimensions in mm(L X W)	54 x 90	84 x 90	107 x 90	152x 90
Part no.	ULFIMD15F	ULFIMD25F-R	ULFIMD37F	ULFIMD50F
Ordering Code	087010100031	087010100041	087010100011	087010100024

Ordering Details

D-Sub Female Connector Positions.	15	25	37	50
Dimensions in mm(L X W)	52 x 90	73 x 90	107 x 90	152x 90
FIM Ordering Code	ULFIMD15M	ULFIMD25M	ULFIMD37M	ULFIMD50M
Ordering Code	087010100050	087010100036	087010100012	087010100013



Note: Passive Module with D sub connector to terminals with LED Indication is available on request.
Specify Prefab cable length while ordering.

Passive Interface Modules

Passive Interface Module (IDC/FRC to Screw terminals)

Features:

- Elimination of single core wiring, connection through Prefab plug-in Cable.
- Reduce Installation & assembly time.
- Available with all standard IDC/ FRC Pins to terminals.
- Connection one to one.
- Compact in design.
- Universal Rail mounting.



Technical Data:

General Data

Number of Positions 10, 16, 20, 34, 40, 50, 64

Operating Voltage Max. 60V AC/DC

Current Rating / Channel 1.5 Amp.

Test Voltage 500V, 1min

Terminations Control Side IDC/FRC Male Connector

Field Side Screw Type Terminals

Connection Type Control Side Multicore Non-Shielded Cable

20-64 Core, 0.14 mm²

Field Side Wire Size 0.14 mm²

Environment/ Compliance Data

Ambient temperature 0°C to +60°C

Relative humidity Max. 90% (Non-condensing)

PCB design UL standard ANSI IPC 2221, 2222 &

MIL 275B

Screw- Terminals UL, CSA Standard & CE standard

Mounting Din Rail Mountable

System Side Termination

Plug-in Connector type IDC/FRC

Contact Material Copper Alloy

Operating Current 5 A per contact

Contact Resistance <20mΩ

Insulation Resistance ≥ 5000 MΩ

Maximum Voltage 1000 Vrms

Field Side Termination

Terminal Type Screw Terminal

Nominal Current /Sq.mm 24A/ 2.5mm²

Rated Voltage 250V

Rated surge Voltage 4KV

Solid/ Stranded 0.2-4/ 0.2-2.5/ 24-12

[mm²/ mm²] AWG

Insulation material PA/I

Tightening torque 0.6 Nm Max.

Ordering Details

IDC/FRC Male Connector Positions.	10	16	20	34	40	50
Dimensions in mm(L X W)	52 x 90	70 x 90	70 X 90	114 x 90	114 x 90	137 X 90
Part no.	ULFLKM10	ULFLKM16	ULFLKM20	ULFLKM34	ULFLKM40	ULFLKM50
Ordering Code	087010100091	087010100005	087010100006	087010100074	087010100003	087010100002

Ordering Details

IDC/FRC Male Connector Positions.	50
Dimensions in mm(L X W)	146X45
Part no.	ULFLKM50M-42
Ordering Code	087010100001



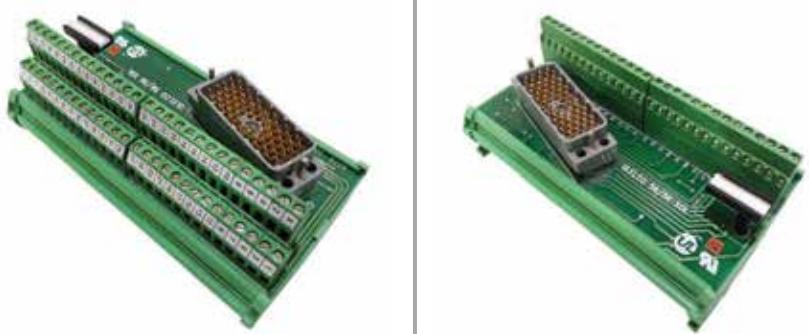
Note: Passive Module with IDC/FRC to terminals with LED Indication is available on request.
Specify Prefab cable length while ordering.

Passive Interface Modules

Passive Interface Module (EDAC/ELCO to Screw terminals)

Features:

- Elimination of single core wiring, connection through Prefab plug-in Cable.
- Reduce Installation & assembly time.
- Available with all standard EDAC/ELCO Pins to terminals.
- Connection one to one.
- Compact in design.
- Universal Rail mounting.



Technical Data:

General Data

Number of Positions	20, 38, 56, 90
Operating Voltage	Max. 120V AC/DC
Current Rating / Channel	2 Amp.
Test Voltage	500V, 1min
Terminations	Control Side EDAC/Elco Male Connector Field Side Screw Type Terminals
Connection Type	Control Side Multicore Sh./Non-Shielded Cable 20-56 Core, 0.34 mm ² Field Side Wire Size 2.5 mm ²
Environment/ Compliance Data	
Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Din Rail Mountable

System Side Termination

Plug-in Connector type	EDAC/ELCO
Contact Material	Copper Alloy
Operating Current	8.5 A per contact
Contact Resistance	≤10mΩ
Insulation Resistance	≥ 5000 MΩ
Maximum Voltage	2000 Vrms
Field Side Termination	
Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Ordering Details

EDAC/ ELCO Connector	ELCO38/38	ELCO38/38	ELCO56/56	ELCO56/56	ELCO90/38
Dimensions in mm(L X W)	107 X 90	107 X 90	152 X 90	152 X 90	109 X 90
Part no.	ULELCO38-38-XOL	ULELCO38-38-XOL	ULELCO56-56M-XOL-R1	ULELCO56-56M-XOL-R1	ULELCO90-38-XOL-R1
Ordering Code	087010100032	087010100033	087010100093	087010100092	087010100094



Note: EDAC/ELCO Module with respective EDAC/ELCO Prefab Cable are also available.
Specify Prefab cable length while ordering.

CNC Interface Modules

CNC Specific I/O Interface Module

Features:

- Fast traceability of signal status through Channel-wise LED indications.
- Plug-in Relays.
- Reduces Installation & commissioning time.
- Provides ease trouble-shooting & maintenance.
- Compact in design.
- Universal Rail mounting.



Technical Data:

System Input Data

Number of Inputs & Outputs	24 Digital Inputs & 16 Digital Outputs
Input Signal Voltage	24VDC
Signal Mode	Non-Redundant
Input Status LED/Channel	Green LED
Protection	Back emf
Signal Configuration	Source
Termination	50 Pin FRC Connector

Field Output Data

Output Signal Voltage	24VDC
Signal Configuration	Pot-free
Contact Configuration	DPDT, 2 Change Over
Contact current rating	5Amp @ 230VAC / 24VDC
Protection	Short Circuit (refer selection matrix)
Fuse Type	Glass Fuse

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 2.5mm ²
Rated Voltage	250V
Rated surge Voltage	4KV
Solid/ Stranded [mm ² / mm ²] AWG	0.2-4/ 0.2-2.5/ 24-12
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Side Power Supply

Aux Voltage	24VDC/110VAC/230VAC
Power ON Status	Green LED

System Side Termination

Terminal Type	50 Pin FRC Connector
Contact Material	Copper Alloy
Operating Current	1.5A per contact @ 20°C
Contact Resistance	≤20mΩ
Insulation Resistance @ 500Vdc	≥ 5000 MΩ @ 100V
Dielectric Withstanding Voltage	1000 Vrms

Relay Data

Relay Make	Omron, G2RL Series or Equivalent
Contact Type	DPDT, 2 Change Over
Approvals	   

Relay Socket

Rated values	5A AC/ DC, 250V rms
Dielectric strength	2000V AC rms for 1 min.
Insulation resistance	1000MΩ at 500V DC
Ambient temperature	-45 to +120°C

General Data

Ambient temperature	0°C to +60°C
Relative humidity	Max. 90% (Non-condensing)
PCB design	UL standard ANSI IPC 2221,2222 & MIL 275B
Screw- Terminals	UL, CSA Standard & CE standard
Mounting	Universal Rail Mounting

Selection Matrix CNC Interface Relay Module 24Input & 16 Output (Non-redundant)

Channel Density		16	
Protection	Contact Fuse	-	✓
	Fuse Fail LED	-	-
Pot-free Contact		✓	✓
Wetted Contact		-	-
Configuration	Source	✓	✓
	Sink	-	-
Current Consumption		410mA	410mA
Dimensions in mm(L X W)		312 X 90	312 X 126
Part No.	UL24I16O-PWRMT-OB	UL24I16O-OF-C-PWRMT-OB	
Ordering Code	089010100002	089010100001	

Application Industry



Note: Specify Prefab cable length while ordering.

Prefabricated Cables for DI, DO, AI & AO Field Interface modules & IO cards of PLC/DCS

Features:

- Highly flexible multicore Shielded/ Non-Shielded Cable.
- Core cross section 0.14Sq.mm/0.25Sqmm/0.34Sq.mm.
- User specified Cable lengths.
- System Side of Prefab Cable duly ferruled & crimped lugs.
- User specified ferruling as per requirement.
- Plug-in Connector options- D Sub M/F, IDC/FRC/ELCO.



Technical Data:

Pre-fab cable with D-sub & FRC connectors

No. of Core	20/40 Core Shielded (LIYCY)/Non- Shielded(LIYY)
Conductor Material	Stranded Bare Copper (DIN VDE 0295 class code)
Insulation Material & colour	PVC (Polyvinyl Chloride) DIN 47100 Color
Jacket/sheath material	PVC (Polyvinyl Chloride)
Voltage rating (U0/U)	At 0.14 mm ² :350 V ≥ 0.24 mm ² : 500 V
Shielded if applicable	Tinned Copper Braid Shielded
Oil Resistance	DIN EN 50290-2-22 (TM54)
Temperature Range	-40°C to +80°C (Fixed installation)
Bending Radius	6 x OD (Fixed installation)
Nom. mutual capacitance	120nf/km
Nominal Inductivity	0.50mH/km
Insulation resistance	>20 GOhm x cm
Flame / Fire Retardancy if applicable	IEC 60332-1
Nominal voltage	UL: 300V RMS Non-UL: 500V (Not for Power application)
UL Approvals	Available On Request
RoHS Compliant	Yes

Other Options Available in Prefab Cable



Utility Module with ON/OFF Control for tube lights and fans



General Data:

Input Supply	230VAC/110VAC, 5 Amp.
Utility Socket	Universal, 230VAC, 5/15 Amp
Utility ON/OFF	Rocker Switch (Illuminated)
Termination for front & rear Tubes	One input terminal & 2 Output terminal (110VAC/230VAC)
Termination for front & rear Fans	One input terminal & 2 Output terminal (110VAC/230VAC)
Protection for tube & fans	Short circuit protection using fuse in each load
ON/OFF control for Tube /Fans	Toggle Switch
Dimensions (LWXH)	137mm x 90mm x 65mm
Mounting	Universal Rail mounting
Screw- terminals	UL, CSA Standard & CE standard
Part no.	UL-UTILITY V1
Ordering Code	088020100001

Power Distribution Module



General Data:

Incoming Feeder Terminal	One Push Lock Spring Connection Terminal
Incoming Feeder Rating	68 Amp
Power ON Status	Green LED
Outgoing Feeder's	8 No's with spring-cage Connection
Outgoing Feeder's Fuse rating	24V DC,6.3A (Fast blown type)
Outcoming Feeder's Fuse monitoring	Red LED for blown fuse indication per channel
Alarm Signal	Common Opto-Isolated Alarm contact to indicate fuse fail or power fault status.
Fuse Type	5 x 20mm Glass Fuse
Opto-coupler output Rating	60mA @ 24VDC
Dimension (L x W x H)	112mm x 90mm x 90mm
Mounting	Universal rail
Screw- terminals	UL, CSA Standard & CE standard
Part no	UL24D08PDB-OI-ALM-V1
Ordering Code	088030100007

Diode Oring Modules



General Data:

Diode Oring Module	Low Cost Diode Oring module suitable redundant Power supplies
Voltage Rating	24VDC/110VDC/220VDC
No. of channels	One
Signal Mode	Redundant
Output Current	Available in 10Amp, 20Amp & 40 Amp.
Diode Specification	Type Stud Screw Fit- Standard Recovery diode VRSM1200/1600 Volt. IFAV 16/25/45/70 Amp.
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B
Screw- terminals	UL, CSA Standard & CE standard
Part no	On request
Ordering Code	On request

Diode Oring Module (Plastic Enclosure)



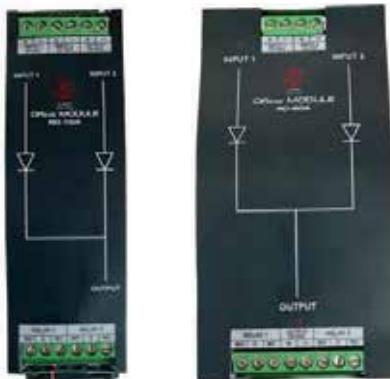
Features:

- Slim, compact, and rugged execution.
- Standard DIN rail mount execution.
- The Diode Oring Module has the additional function of monitoring the healthy status of the two power supply inputs connected to it.
- Potential free Relay changeover contact provided in the event of failure of any one or both of the Input power supplies.

Technical Data:

Diode Oring Modules	UL-RD-5A	UL-RD-10A
Type	Redundant Diode Oring Module	
Input Signal 1	24VDC/5A	24VDC/10A
Input Signal 2	24VDC/5A	24VDC/10A
Output Signal	24VDC/5A	24VDC/10A
Relay Outputs	Two Relays monitoring the status of two power inputs.	
Contact Rating	10A @ 230 VAC (Resistive loads)	
Indication	LEDs for two Inputs and one Output	
Dimensions [HXWxD]	75 x 55 x110 mm	75 x 100 x110 mm
Execution	DIN Rail mounting	
Enclosure	Industrial grade ABS enclosure	
Part no.	UL-RD-5A	UL-RD-10A
Ordering Code	091010100031	091010100032

Diode Oring Module (Metallic Enclosure)



Technical Data:

Diode Oring Modules	UL-RD-10A-M	UL-RD-20A-M
Type	Redundant Diode Oring Module	
Input Signal 1	24VDC/10A	24VDC/20A
Input Signal 2	24VDC/10A	24VDC/20A
Output Signal	24VDC/10A	24VDC/20A
Control Output	Two Relay change over contacts	
Load Current	10 Amp.	20 Amp.
Indication	Green LED for Input Red LED for Output	
Dimensions [HXWxD]	124 x40 x112.5 mm	124 x 63 x113.5 mm
Execution	DIN Rail/ Wall mounting	
Enclosure	Industrial grade metal enclosure	
Operating Temperature	0 to + 70°C	
Part no.	UL-RD-10A-M	UL-RD-20A-M
Ordering Code	091010100041	091010100045

Features:

- High output load regulation
- Rugged, industrial grade ABS and metal enclosure
- High Noise immunity
- DIN rail mounting
- High efficiency and high reliability
- Dual Redundancy option
- Fuse Protection for High Current

Fan Failure Detection Module for 2 Fans with Temperature Monitoring



Technical Data:

Input	Inbuilt Electronic temperature sensor.
Temperature Display	Three 0.4" inch seven-segment red LED displays.
Measuring Temperature Range	000-099 °C
Key board	3 x Keys
Analog Output	4 to 20 mA DC (configurable to any temperature between value of 0 to 99°C)
External Relays	Relay 1 & 2 for AC Powered Contact for Fan 1 & 2 respectively Relay 3 for Temperature high alarm Relay Relay 4 for fan failure Relay.
Control Output	2 AC Fans (90 to 270V AC supply to individual Fans)
Protection	Fan Short Circuit protection at Output & Overvoltage protection at input
Indications	a) 2 Bicolor LED's (Red & Green for Fan Status) b) Red LED for Fan fail or Temperature alarm conditions
Failure Detection	Fan Stuck/stop open circuit Temperature sensor fail
Power Supply	90 to 270V AC, 50/60 Hz
Fan Current Range	Min. 80mA /Max. 500mA AC
Dimensions	75 x 55 x 110 mm [H x W x D].
Enclosure	Polycarbonate.
Mounting	DIN Rail
Part no.	UL02-FFTGU-ALM-4-20MA
Ordering Code	091010100002

Features:

- Microcontroller based design.
- Auto Current Sending technology.
- 2-digit 7 segment LED display.
- Retransmission option 4-20mA.
- Universal Input 90-270VAC.
- Bi-colour LED's for Fan status.
- Over voltage protection.
- 4- External relays for Fan Powered Contact, fan fail & temp. fail
- Din Rail Mountable.

Fan Failure Detection Module for 4 Fans with Temperature Monitoring



Technical Data:

Input	Built-in Electronic Temperature Sensor
Display	Two 0.4" inch seven segment red LED displays
Measuring Temperature Range	0-99 ° C
Key board	3 x Keys
Analog Output	4 to 20 mA DC (configurable to any temperature between value of 0 to 99°C)
External Relays	4x Relay (AC powered contacts for fan 1,2,3 & 4) 1x Relay (For Fan Fail alarm contact – common for all Fans) 1x Relay (For Higher Temperature alarm contact)
Control Output	4 AC Fans (90 to 270V AC supply to individual Fans)
Protection	Fan Short Circuit protection at Output & Overvoltage protection at input
Indications	a) 4 Bicolor LED's (Red & Green for Fan Status) b) Red LED for Fan fail or Temperature alarm conditions
Failure Detection	Fan Stuck/ stop open circuit Temperature sensor fail
Power Supply	90 to 270V AC, 50/60 Hz
Fan Current Range	Min. 80mA /Max. 500mA AC
Dimensions	75 x 100 x 110 mm [H x W x D].
Enclosure	Polycarbonate.
Mounting	DIN Rail
Part no.	UL04-FFTGU-ALM-4-20MA
Ordering Code	091010100003

Features:

- Microcontroller based design.
- Auto Current Sending technology.
- 2-digit 7 segment LED display.
- Retransmission option 4-20mA.
- Universal Input 90-270VAC.
- Bi-colour LED's for Fan status.
- Over voltage protection.
- 6- External relays for Fan Powered Contact fan fail or temp. fail
- Din Rail Mountable.

Digital Thermostat



Technical Data:

Type	Rack/Panel Temperature monitoring unit with Relay contacts.
Input Signal	Precision Electronic Temperature Sensor (built-in).
Control Output	Potential-free Relay Change-over contacts
Contact Rating	7 Amp @ 230 VAC (Resistive Loads).
Setting	By two-keys tactile keypad.
Indication	Digital temperature readout.
Display	0.4" LED Bright red Three-digit seven-segment display.
Power Supply	230 VAC, 50 Hz.
Dimensions	35 x 75 x 50 mm (W x H x D)
Execution	Din Rail Mounting
Ambient temp	0 to 50°C
Part no.	UL-ATS40
Ordering Code	091010100055

Features:

- Slim, compact and rugged execution.
- Precision temperature indication.
- Provision to set alarm level.
- Relay change over contacts for alarm conditions.
- Standard DIN rail mount execution.
- Built in electronic temperature sensor.
- AC power supply.
- Bright red digital Temperature readout.
- Easy set-up with frontal keypad

Temperature Monitoring Unit



Technical Data:

Type	Rack Temperature monitoring unit with relay contact and retransmission
Input Signal	Electronics built-in sensor
Control Output	Relay change- over contact rating
Retransmission output	4 to 20mA DC
Load Driving Capacity	600 Ohms
Contact Rating	2 Amp @ 230 VAC
Setting	By three-key front keypad.
Indication	Digital temperature readout.
Display	0.30" LED Bright red.
Power Supply	90 to 270 V AC, 50/60 Hz.
Dimensions	75 x 22 x 110 (HXWxD)
Execution	Din Rail Mounting
Ambient temp	0 to 50°C
Part no.	UL-TM50
Ordering Code	09101010005

Features:

- Slim, compact and rugged execution.
- Precision temperature indication.
- Provision to set alarm level.
- Relay change over contacts for alarm conditions.
- Analog signal retransmission of temperature value
- Standard DIN rail mount execution.
- Built in electronic temperature sensor.
- AC power supply.
- Bright red digital Temperature readout.
- Easy set-up with frontal keypad

Din Rail Mount LIU



Features:

- MS/Aluminum housing with 7 tank process powder coating.
- Compact size perfect for limited space Din Rail mount enclosures.
- Suitable for DIN Rail & Surface mount Applications.
- Replaceable panel for SC/ST/LC/FC type couplers.
- Allow maximum 2 cables entry.
- Patch or Fusion splice field termination standard.
- Splice holder for pigtail splicing.
- Available with metal DIN-Rail mount for industrial high temperature applications and conditions.
- Because of its compact and ruggedly designed case it is suitable for industrial applications.

Application:

- Oil & Gas Industries
- CCTV & Surveillance
- Rail Signaling & control
- Process Automation
- Toll Systems
- Power Systems & Controls

Technical Data:

Material	Mild Steel / Aluminum with 7 Tank Process powder coating
Color	Grey / Black
Splice Holder	FR grade ABS/NYLON.
Fiber components standard	Telecordia GR 326

Ordering Details

Model	Product Description	Dimension in mm (H x W x D)	Model Number
NANO	6 Port Din rail Mount Loaded LIU	130 x 65 x 105	ULFOPP-6P-DIN-NN-SCSM-SPX ULFOPP-6P-DIN-NN-SCSM-DPX ULFOPP-6P-DIN-NN-SCMM-SPX ULFOPP-6P-DIN-NN-SCMM-DPX ULFOPP-6P-DIN-NN-STSM-SPX ULFOPP-6P-DIN-NN-STMM-SPX ULFOPP-6P-DIN-NN-LCSM-DPX ULFOPP-6P-DIN-NN-LCMM-DPX ULFOPP-6P-DIN-NN-FCSM-SPX ULFOPP-6P-DIN-NN-FCMM-SPX
MICRO	8 Port Din rail Mount Loaded LIU	150 x 105 x 120	ULFOPP-8P-DIN-MC-SCSM-SPX ULFOPP-8P-DIN-MC-SCSM-DPX ULFOPP-8P-DIN-MC-SCMM-SPX ULFOPP-8P-DIN-MC-SCMM-DPX ULFOPP-8P-DIN-MC-STSM-SPX ULFOPP-8P-DIN-MC-STMM-SPX ULFOPP-8P-DIN-MC-LCSM-DPX ULFOPP-8P-DIN-MC-LCMM-DPX ULFOPP-8P-DIN-MC-FCSM-SPX ULFOPP-8P-DIN-MC-FCMM-SPX
MINI	12 Port Din rail Mount Loaded LIU	210 x 50 x 150	ULFOPP-12P-DIN-MN-SCSM-SPX ULFOPP-12P-DIN-MN-SCSM-DPX ULFOPP-12P-DIN-MN-SCMM-SPX ULFOPP-12P-DIN-MN-SCMM-DPX ULFOPP-12P-DIN-MN-STSM-SPX ULFOPP-12P-DIN-MN-STMM-SPX ULFOPP-12P-DIN-MN-LCSM-DPX ULFOPP-12P-DIN-MN-LCMM-DPX ULFOPP-12P-DIN-MN-FCSM-SPX ULFOPP-12P-DIN-MN-FCMM-SPX
MEDIUM	24 Port Din rail Mount Loaded LIU	285 x 90 x 205	ULFOPP-24P-DIN-MD-SCSM-SPX ULFOPP-48P-DIN-MD-SCSM-DPX ULFOPP-24P-DIN-MD-SCMM-SPX ULFOPP-48P-DIN-MD-SCMM-DPX ULFOPP-24P-DIN-MD-STSM-SPX ULFOPP-24P-DIN-MD-STMM-SPX ULFOPP-48P-DIN-MD-LCSM-DPX ULFOPP-48P-DIN-MD-LCMM-DPX ULFOPP-24P-DIN-MD-FCSM-SPX ULFOPP-24P-DIN-MD-FCMM-SPX ULFOPP-12P-DIN-MN-SCSM-SPX ULFOPP-12P-DIN-MN-SCSM-DPX

For example, ULFOPP-6P-DIN-NN-STSM-SPX :

FOPP- Fiber optic patch panel; 6P- 6 Port ;8P- 8 Port; 12P-12 Port; 24P-24 Port; 48P- 48 Port; DIN-Din rail ; NN- Nano; MC-Micro; MN-Mini; MD-Medium; SC/ST/LC/FC- connector Type; SM-single Mode; MM-multi Mode; SPX- Simplex; DPX-Duplex.

Note: Fiber optic patch panel with aluminum casting will be available on request.

WALL MOUNT LIU



Features:

- MS/Aluminum housing with 7 tank process powder coating.
- Compact size perfect for limited space enclosures.
- Suitable for Din rail & Surface mount Applications.
- Replaceable panel for SC/ST/LC/FC type couplers.
- Allow maximum 4 cables entry.
- Patch or Fusion splice field termination standard.
- Splice holder for pigtail splicing.
- Can be used as 24 port patch panel using LC/SC Duplex couplers.

Application:

- Oil & Gas Industries
- Central offices (FTTX)
- Telecommunication Networks
- Process Automation
- Security Surveillance
- Power Systems & Controls

Technical Data:

Material	Mild Steel/ Aluminum with 7 Tank Process powder coating
Color	Grey / Black
Splice Holder	FR grade ABS/NYLON.
Fiber components standard	Telecordia GR 326

Ordering Details

Model	Product Description	Dimension in mm (H x W x D)	Model Number
WALL	6/8 Port wall Mount Loaded LIU	260 x 230 x 60	ULFOPP-6P-WM-SCSM-SPX ULFOPP-6P-WM-SCSM-DPX ULFOPP-6P-WM-SCMM-SPX ULFOPP-6P-WM-SCMM-DPX ULFOPP-6P-WM-STSM-SPX ULFOPP-6P-WM-STMM-SPX ULFOPP-6P-WM-LCSM-SPX ULFOPP-6P-WM-LCMM-SPX ULFOPP-6P-WM-FCSM-SPX ULFOPP-6P-WM-FCMM-SPX
WALL	12 Port Wall Mount Loaded LIU	310 x 250 x 60	ULFOPP-12P-WM-SCSM-SPX ULFOPP-12P-WM-SCSM-DPX ULFOPP-12P-WM-SCMM-SPX ULFOPP-12P-WM-SCMM-DPX ULFOPP-12P-WM-STSM-SPX ULFOPP-12P-WM-STMM-SPX ULFOPP-12P-WM-LCSM-SPX ULFOPP-12P-WM-LCMM-SPX ULFOPP-12P-WM-FCSM-SPX ULFOPP-12P-WM-FCMM-SPX
WALL	24 Port Wall Mount Loaded LIU	350 x 300 x 60	ULFOPP-24P-WM-SCSM-SPX ULFOPP-24P-WM-SCSM-DPX ULFOPP-24P-WM-SCMM-SPX ULFOPP-24P-WM-SCMM-DPX ULFOPP-24P-WM-STSM-SPX ULFOPP-24P-WM-STMM-SPX ULFOPP-24P-WM-LCSM-SPX ULFOPP-24P-WM-LCMM-SPX ULFOPP-24P-WM-FCSM-SPX ULFOPP-24P-WM-FCMM-SPX
WALL	48 Port wall Mount Loaded LIU	350 x 300 x 110	ULFOPP-48P-WM-SCSM-SPX ULFOPP-48P-WM-SCSM-DPX ULFOPP-48P-WM-SCMM-SPX ULFOPP-48P-WM-SCMM-DPX ULFOPP-48P-WM-STSM-SPX ULFOPP-48P-WM-STMM-SPX ULFOPP-48P-WM-LCSM-SPX ULFOPP-48P-WM-LCMM-SPX ULFOPP-48P-WM-FCSM-SPX ULFOPP-48P-WM-FCMM-SPX

For example, ULFOPP-8P-WM-SCSM-DPX :

FOPP- Fiber optic patch panel; 6P- 6 Port ; 8P- 8 Port; 12P-12 Port; 24P-24 Port; 48P- 48 Port; WM-Wall Mount ; SC/ST/LC/FC- Connector Type; SM-single Mode; MM-multi Mode; SPX- Simplex; DPX-Duplex

Note: Fiber optic patch panel with aluminum casting will be available on request.

RACK MOUNT LIU



Features:

- MS/Aluminum housing with 7 tank process powder coating.
- Replaceable panel for SC/ST/LC/FC type couplers.
- Capable of storing up to 3 meters of 900-micron tight buffered fiber cable.
- Allow maximum 6 cables entry.
- Patch or Fusion splice field termination standard.
- High impact resistance splicing tray & cable spool for fiber & pigtail routing.

Application:

- Indore Premise Networks
- Central offices (FTTX)
- Telecommunication Networks
- Security Surveillance
- Process Automation
- Power Systems & Controls

Technical Data:

Material	Mild Steel/ Aluminum with 7 Tank Process powder coating
Color	Grey / Black
Splice Holder	FR grade ABS/NYLON.
Fiber components standard	Telecordia GR 326

Ordering Details

Model	Product Description	Dimension in mm (H x W x D)	Model Number
MINI RACK	6 Port Rack Mount Loaded LIU	44 x 210 x 150	ULFOPP-6P-RM-MN-SCSM-SPX ULFOPP-6P-RM-MN-SCSM-DPX ULFOPP-6P-RM-MN-SCMM-SPX ULFOPP-6P-RM-MN-SCMM-DPX ULFOPP-6P-RM-MN-STSM-SPX ULFOPP-6P-RM-MN-STMM-SPX ULFOPP-6P-RM-MN-LCSM-SPX ULFOPP-6P-RM-MN-LCMM-SPX ULFOPP-6P-RM-MN-FCSM-SPX ULFOPP-6P-RM-MN-FCMM-SPX
1U STD RACK	12/24 Port Rack Mount Loaded LIU	44 x 430 x 320	ULFOPP-24P-RM-1U-SCSM-SPX ULFOPP-24P-RM-1U-SCSM-DPX ULFOPP-24P-RM-1U-SCMM-SPX ULFOPP-24P-RM-1U-SCMM-DPX ULFOPP-24P-RM-1U-SCM-SPX ULFOPP-24P-RM-1U-SCM-DPX ULFOPP-24P-RM-1U-STSM-SPX ULFOPP-24P-RM-1U-STMM-SPX ULFOPP-24P-RM-1U-LCSM-SPX ULFOPP-24P-RM-1U-LCMM-SPX ULFOPP-24P-RM-1U-FCSM-SPX ULFOPP-24P-RM-1U-FCMM-SPX
2U RACK	48 Port Rack Mount Loaded LIU	88 x 430 x 320	ULFOPP-48P-RM-2U-SCSM-SPX ULFOPP-48P-RM-2U-SCSM-DPX ULFOPP-48P-RM-2U-SCMM-SPX ULFOPP-48P-RM-2U-SCMM-DPX ULFOPP-48P-RM-2U-SCM-SPX ULFOPP-48P-RM-2U-SCM-DPX ULFOPP-48P-RM-2U-STSM-SPX ULFOPP-48P-RM-2U-STMM-SPX ULFOPP-48P-RM-2U-LCSM-SPX ULFOPP-48P-RM-2U-LCMM-SPX ULFOPP-48P-RM-2U-FCSM-SPX ULFOPP-48P-RM-2U-FCMM-SPX
4U RACK	96 Port Rack Mount Loaded LIU	176 x 440 x 350	ULFOPP-96P-RM-4U-SCSM-SPX ULFOPP-96P-RM-4U-SCSM-DPX ULFOPP-96P-RM-4U-SCMM-SPX ULFOPP-96P-RM-4U-SCMM-DPX ULFOPP-96P-RM-4U-SCM-SPX ULFOPP-96P-RM-4U-SCM-DPX ULFOPP-96P-RM-4U-STSM-SPX ULFOPP-96P-RM-4U-STMM-SPX ULFOPP-96P-RM-4U-LCSM-SPX ULFOPP-96P-RM-4U-LCMM-SPX ULFOPP-96P-RM-4U-FCSM-SPX ULFOPP-96P-RM-4U-FCMM-SPX

For example, ULFOPP-24P-RM-2U-LCSM-DPX:

FOPP- Fiber optic patch panel; 6P- 6 Port ; 12P-12 Port; 24P-24 Port; 48P- 48 Port; RM-Rack Mount ; MN- Mini; 1U/2U/4U- Rack Size; SC/ST/LC/FC- Connector Type; SM-single Mode; MM-multi Mode; SPX- Simplex; DPX-Duplex

Note: Fiber optic patch panel with aluminum casting will be available on request.

SLIDING RACK MOUNT LIU



Features:

- MS/Aluminum housing with 7 tank process powder coating.
- Replaceable panel for SC/ST/LC/FC type couplers.
- Capable of storing up to 3 meters of 900-micron tight buffered fiber cable.
- Allow maximum 6 cables entry.
- Patch or Fusion splice field termination standard.
- High impact resistance splicing tray & cable spool for fiber & pigtail routing.

Application:

- Indore Premise Networks
- Central offices (FTTX)
- Telecommunication Networks
- Security Surveillance
- Process Automation
- Power Systems & Controls

Technical Data:

Material	Mild Steel/ Aluminum with 7 Tank Process powder coating
Color	Grey / Black
Splice Holder	FR grade ABS/NYLON.
Fiber components standard	Telecordia GR 326

Ordering Details

Model	Product Description	Dimension in mm (H x W x D)	Model Number
1U SLIDING RACK	12/24 Port Sliding Rack Mount Loaded LIU	44 x 335 x 320	ULFOPP-12P-SRM-1U-SCSM-SPX ULFOPP-12P-SRM-1U-SCSM-DPX ULFOPP-12P-SRM-1U-SCMM-SPX ULFOPP-12P-SRM-1U-SCMM-DPX ULFOPP-24P-SRM-1U-SCSM-SPX ULFOPP-24P-SRM-1U-SCMM-SPX ULFOPP-12P-SRM-1U-STSM-SPX ULFOPP-12P-SRM-1U-STMM-SPX ULFOPP-24P-SRM-1U-LCSM-SPX ULFOPP-24P-SRM-1U-LCMM-SPX ULFOPP-12P-SRM-1U-FCSM-SPX ULFOPP-12P-SRM-1U-FCMM-SPX
2U SLIDING RACK	48 Port Sliding Rack Mount Loaded LIU	88 x 335 x 320	ULFOPP-48P-SRM-2U-SCSM-SPX ULFOPP-48P-SRM-2U-SCSM-DPX ULFOPP-48P-SRM-2U-SCMM-SPX ULFOPP-48P-SRM-2U-SCMM-DPX ULFOPP-96P-SRM-2U-SCSM-SPX ULFOPP-96P-SRM-2U-SCMM-SPX ULFOPP-48P-SRM-2U-STSM-SPX ULFOPP-48P-SRM-2U-STMM-SPX ULFOPP-96P-SRM-2U-LCSM-SPX ULFOPP-96P-SRM-2U-LCMM-SPX ULFOPP-48P-SRM-2U-FCSM-SPX ULFOPP-48P-SRM-2U-FCMM-SPX
4U SLIDING RACK	96 Port Sliding Rack Mount Loaded LIU	176 x 440 x 350	ULFOPP-96P-SRM-4U-SCSM-SPX ULFOPP-96P-SRM-4U-SCSM-DPX ULFOPP-96P-SRM-4U-SCMM-SPX ULFOPP-96P-SRM-4U-SCMM-DPX ULFOPP-96P-SRM-4U-STSM-SPX ULFOPP-96P-SRM-4U-STMM-SPX ULFOPP-96P-SRM-4U-LCSM-SPX ULFOPP-96P-SRM-4U-LCMM-SPX ULFOPP-192P-SRM-4U-LCSM-SPX ULFOPP-192P-SRM-4U-LCMM-SPX ULFOPP-96P-SRM-4U-FCSM-SPX ULFOPP-96P-SRM-4U-FCMM-SPX

For example, ULFOPP-12P-SRM-1U-FCSM-SPX:

FOPP- Fiber optic patch panel; 12P-12 Port; 24P-24 Port; 48P- 48 Port; 96P- 96 Port; RM-Rack Mount ; SRM-Sliding Rack Mount; 1U/2U/4U-Rack Size; SC/ST/LC/FC- Connector Type; SM-Single Mode; MM-Multi Mode; SPX- Simplex; DPX-Duplex

Note: Fiber optic patch panel with aluminum casting will be available on request.

Simplex and Duplex Patch cords



Technical Data:

Technical Application	Description	Ordering Part code
Fiber Type :Single Mode		
Single-mode fiber optic cables have a yellow jacket. OS1 and OS2 fiber optic cable support Gigabit and 10G Ethernet links	Single Mode 9/125 SC-SC Duplex Patch Cable	FOPC-SM-SC-SC-DPX-XX
		FOPC-SM-SC-LC-DPX-XX
		FOPC-SM-LC-LC-DPX-XX
		FOPC-SM-SC-ST-DPX-XX



Fiber Type :Multimode (OM1/OM2)

OM1 fiber typically comes with an orange jacket and have a core size of 62.5μm, it can support 10 Gigabit Ethernet at lengths of up to 33 meters. It is most commonly used for 100 Megabit Ethernet applications.	Multi-Mode 62.5/125 SC-SC Duplex Patch Cable	FOPC-MM2-SC-SC-DPX-XX
		FOPC-MM2-SC-LC-DPX-XX
		FOPC-MM2-LC-LC-DPX-XX
		FOPC-MM2-SC-ST-DPX-XX



Fiber Type :Multimode (OM3)

OM2 fiber also comes with an Turquoise jacket and uses a LED light source but with a smaller core size of 50 μm. It supports up to 10 Gigabit Ethernet at lengths up to 82 meters but is more commonly used for 1 Gigabit Ethernet applications.	Multi-Mode 50/125 SC-LC Duplex Patch Cable	FOPC-MM3-SC-LC-DPX-XX
		FOPC-MM3-LC-LC-DPX-XX
		FOPC-MM3-SC-ST-DPX-XX



Fiber Type :Multimode (OM4)

OM4 fiber is completely backwards compatible with OM3 fiber and shares the same distinctive aqua jacket. OM4 was developed specifically for VSCEL laser transmission and allows 10 Gig/s link distances of up to 550m compared to 300M with OM3. And it's able to run 40/100GB up to 150 meters utilizing a MPO connector	Multi-Mode 50/125 SC-LC Duplex Patch Cable	FOPC-MM4-SC-LC-DPX-03
		FOPC-MM4-LC-LC-DPX-03
		FOPC-MM4-SC-ST-DPX-03
		FOPC-MM4-SC-LC-DPX-03

Ordering Information

Part No. Abbreviation & Description:

FOPC-XX-YY-ZZ-PPX-OOO

FOPC : Fiber Optic Patch Cord

XX : SM - Singlemode 9/125um
MM2- Multimode 50/125um (OM1/OM2)
MM3- Multimode 50/125um (OM3) OR
MM4- Multimode 50/125um (OM4)

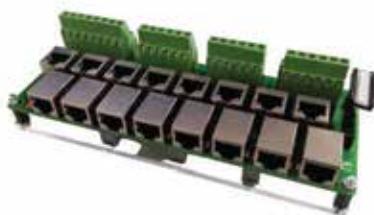
YY-ZZ : YY Indicate type of connector at one end &
ZZ Indicate type connector at another end. Fox Exp.
SC-SC OR SC-LC OR LC-LC OR SC-ST

PPX : Fiber Patch Cable type SPX OR DPX (Simplex OR Duplex)

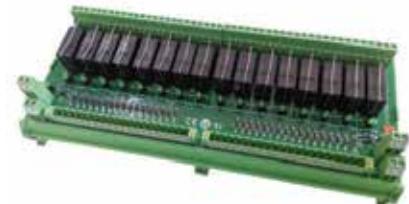
OOO : Indicate Length of Patch cord in MTR Fox Exp. 001 /010 – 1 Mtr to 10 Mtr.

List of Customized Interface Modules

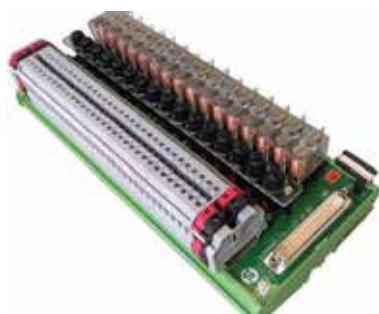
16 Channel DI Slim relay module with miniature fuse



16 Point
RJ-45 module



16 Channel Relay module with MSTB
Plug-in type terminals



16 Channel DI module with rail
mounting Terminals at field side



50 Pin Honda Connector
Module for Robots



16 Channel DO Auto-test Redundant
Module with Modbus communication port



32 channel DI module with
Molex connector



16 Channel Pulse Generator module
with 1ms delay for SOE module



16 Chnannel DI Relay module with DI
redundancy and one pot free contact
on D sub connector

List of Customized Interface Modules

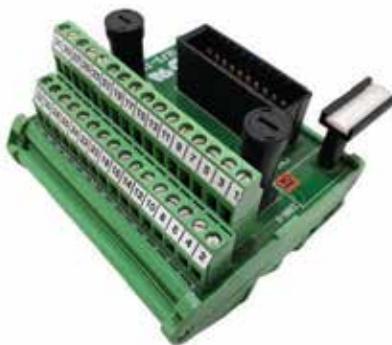
8 Channel AI module with
TR disconnector



Genset ON/OFF
Relay Module



16 Channel FTA for
IOTA module



MTL
LFDDI FTA



MPG BOX with Selector
switch and Spira



EOL WITH CABLE



24 PORT Aluminium black
compact LIU with open



Customized Relay
logic board



8 Channel fuse board
with ON/Off Switch

List of Customized Prefabricated Cables Assemblies

Prefab cable with D sub connector at one end and IOTA connectors at other end



Prefab cable with IOTA connector at both ends New.jpg



Prefab cable with D sub connector at one end and IOTA connector at other end



Prefab Cable with 20pin MSTB Plug-in Terminal & Lugs at other end



Prefab cable with both side ELCO connector



Prefab cable with ELCO connector at one end and IOTA connector at other end



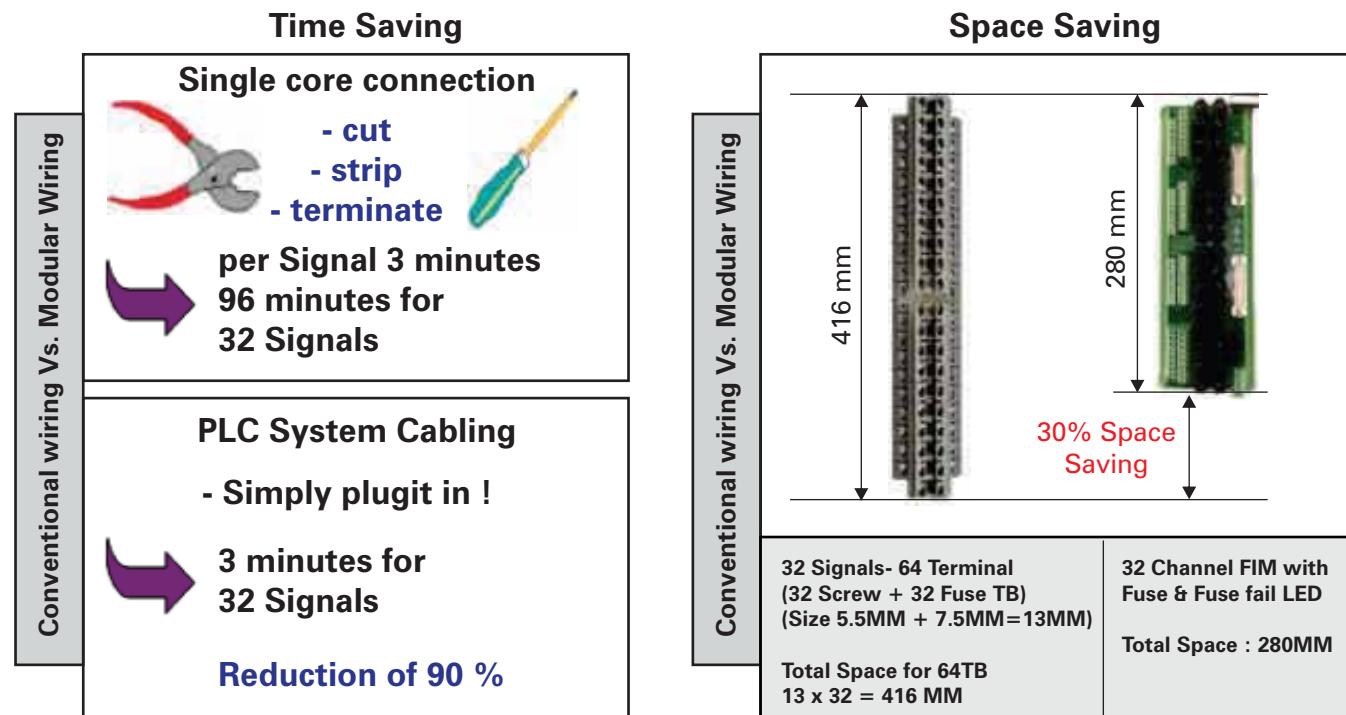
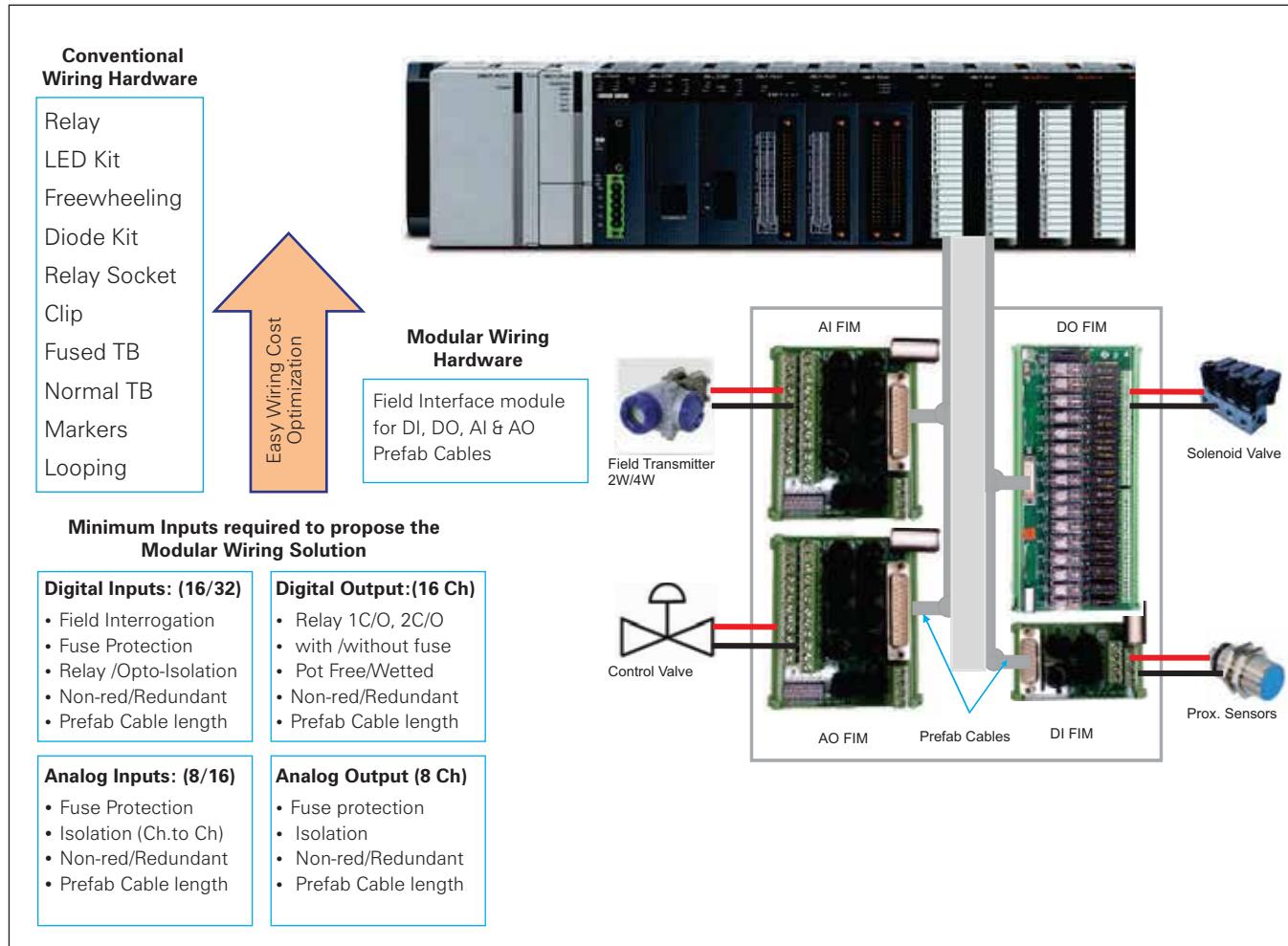
STP/UTP
Cable harness



CNC cable with 20 pin PCR connector at one end & D connector at other end



Prefab cable with ELCO connector at one end and flying leads at other end



GLOBAL SOLUTIONS



 SF-10, Shivam Trade center, Manjalpur
Atladra Road, Near Khichkoli Circle, Atladara,
Vadodara – 390012

 +91 75748 74640

 <https://www.gs-bharat.com/>

 info@gs-bharat.com | sales1@gs-bharat.com