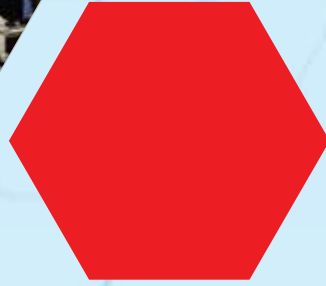




UL GROUP
Nothing's Complex



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, Drager, UL Group, Eaton-MTL and Weidmuller. Additionally, our expertise extends to complete solutions for brands such as Oring, 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 Dräger Fixed Gas Detection:

Global Solutions takes pride in providing a specialized range of Fixed Gas detection products, solutions, and services using Dräger 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:

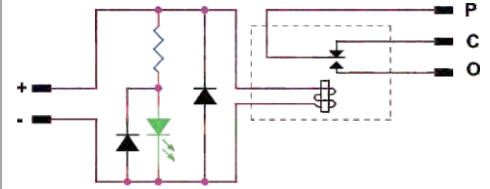
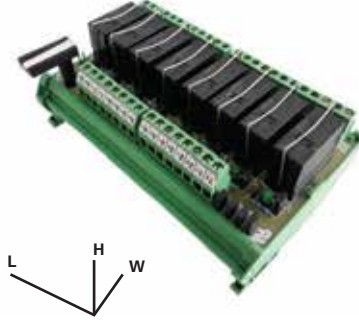
We're proud of the fact that our efforts have not gone unnoticed. The appreciation we've received from our customers is a testament to our dedication to excellence and our ability to deliver on our promises.



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

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.

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)
1	UL24D01-COB	086030100004	25 x 90
2	UL24D02-COB	086030200004	42 x 90
4	UL24D04-COB	086030400004	74 x 90
8	UL24D08-COB-V1	086010100002	134 x 90
16	UL24D16-COB-V2	086010200016	260 x 90

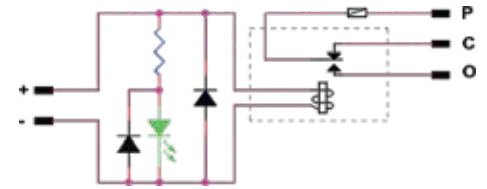
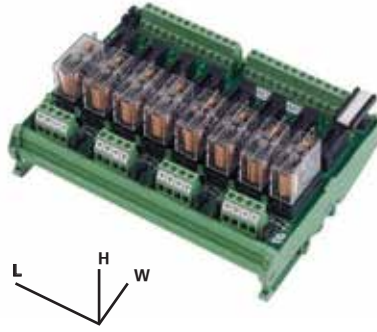
Note:

- 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.

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

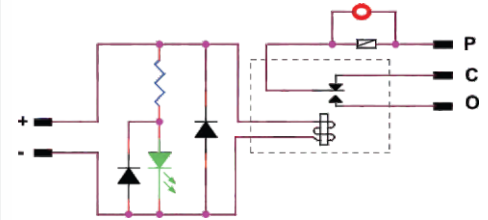
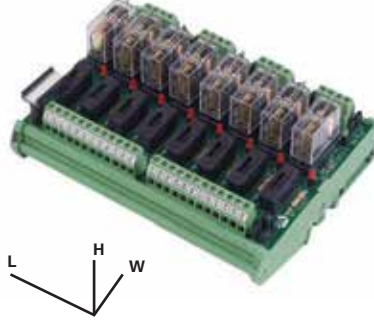
Note:

- 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.

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

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 and Fuse Fail Indiction in each channel

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-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

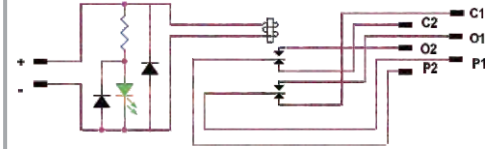
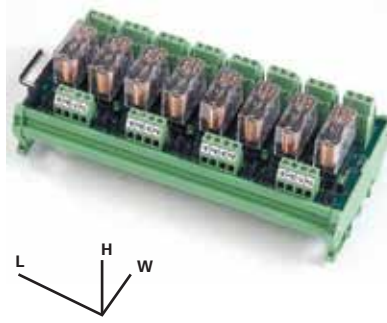
Note:

- 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.

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.

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

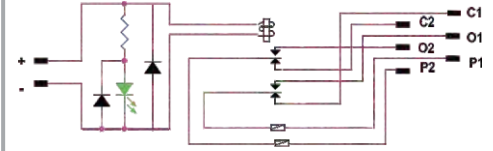
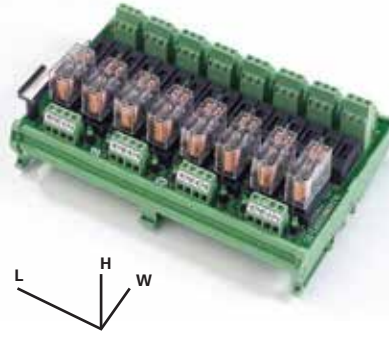
Note:

- 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.

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

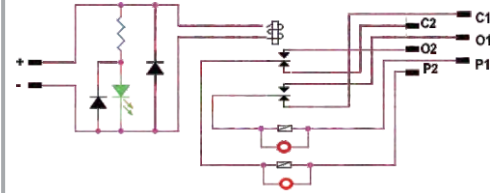
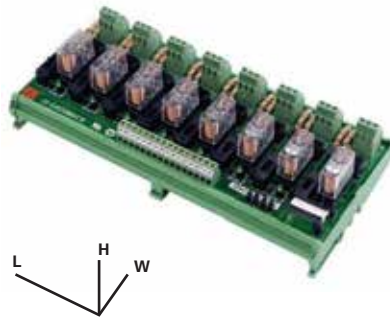
Note:

- 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.

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

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 and Fuse fail LED 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-OFI-2COB	086030400009	137 x 126
8	UL24D08-OFI-2COB	086010100026	266 x 126
16	UL24D16-OFI-2COB	On request	-

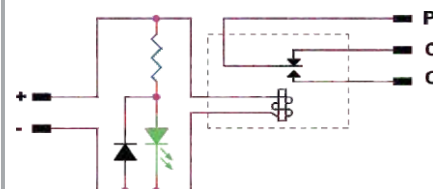
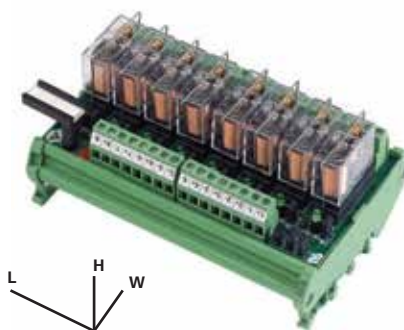
Note:

- 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.

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

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	SPDT, Potential Free
Contact Current Rating	10 A at 250 VAC 10 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	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 for 24VAC, 1C/O Relay Module

Channel	Part Code	Ordering Code	Size in mm (L x W)
4	UL24A04-COB	086030400025	77 x 90
8	UL24A08-COB	086010100031	134 x 90

Ordering details for 110VAC, 1C/O Relay Module

4	UL110A04-COB	086030400012	77 x 90
8	UL110A08-COB	086010100010	134 x 90
16	UL110A16-COB	086010200003	267 x 90

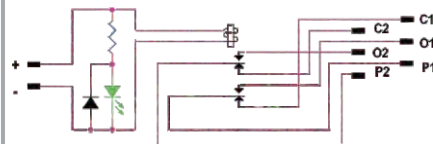
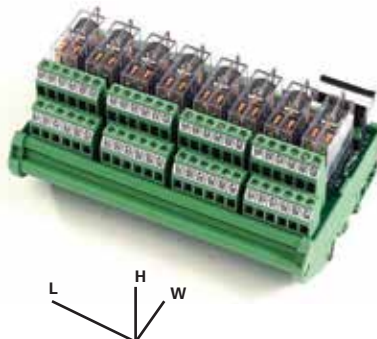
Ordering details for 230VAC, 1C/O Relay Module

4	UL230A04-COB	086030400011	77 x 90
8	UL230A08-COB	086010100003	134 x 90
16	UL230A16-COB	086010200004	267 x 90

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

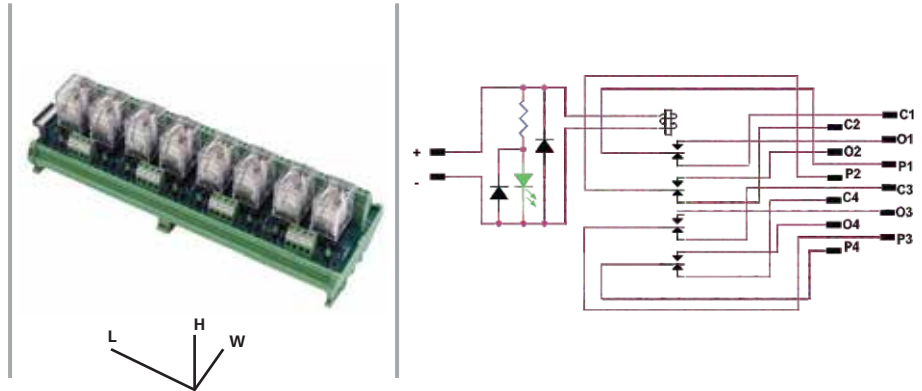
Ordering details for 24VAC, 2C/O Relay Module

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

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

Operating Voltage	24VDC
Rated Current (mA)	42
Input Status LED/Ch	Green
Back emf Protection/Channel	Free-wheeling Diode
Positive/Negative Looping	User Selectable using Jumpers


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	

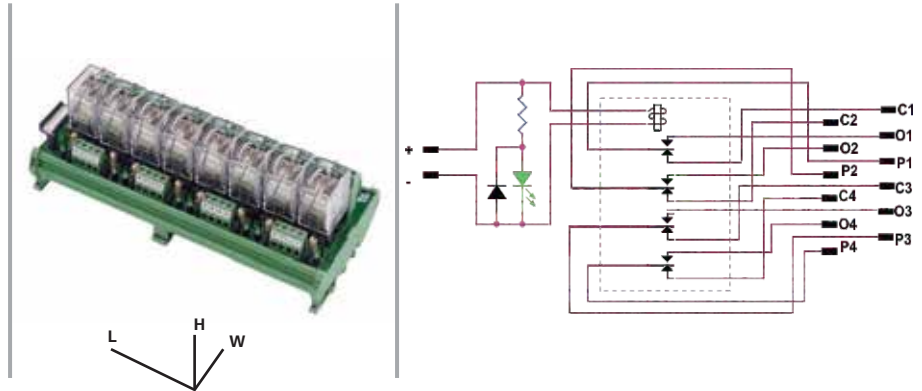
Ordering details for 24VDC, 4C/O Relay Module

Channel	Part Code	Ordering Code	Size in mm (L x W)
2	UL24D02-4COB	086030200006	80 x 90
4	UL24D04-4COB	086030400015	140 x 90
8	UL24D08-4COB	086010100016	267 x 90

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

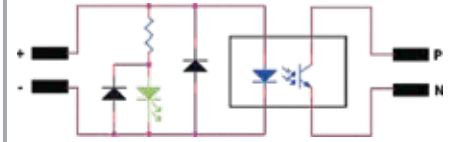
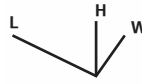
Ordering details for 230VAC, 4C/O Relay Module

2	UL230A02-4COB	086030200007	80 x 90
4	UL230A04-4COB	086010100039	140 x 90
8	UL230A08-4COB	086010100037	271 x 90

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 Protection	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.

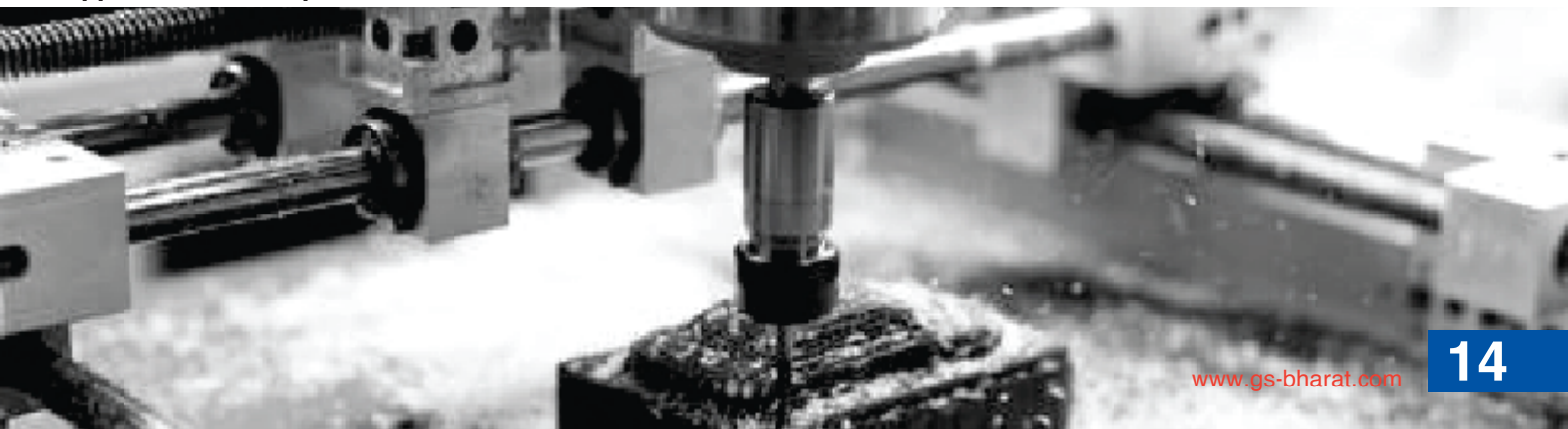
General Data

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	405mA	405mA
Dimensions in mm(L X W)		74 x 90	87 x 126	134 x 90	132 x 126	269 x 90	262 x 126
Part No.		UL24D04-SSR-DC	UL24D04-OFI-SSR-DC	UL24D08-SSR-DC	UL24D08-OFI-SSR-DC	UL24D16-SSR-DC	UL24D16-OFI-SSR-DC
Ordering Code		086020100001	086020100002	086020200002	086020200004	086020300001	086020300002

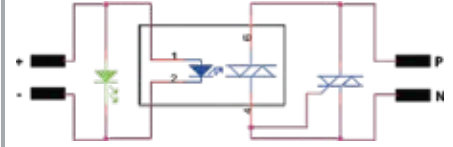
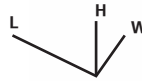
Application Industry



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
I ² T	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
Inbuild 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	2.5mm 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	Output Fuse	-	✓	-	✓	-	✓
	Fuse, LED	-	✓	-	✓	-	✓
Normally Open Contact		✓	✓	✓	✓	✓	✓
Wetted Contact		-	-	-	-	-	-
Configuration	Source	✓	✓	✓	✓	✓	✓
	Sink	✓	✓	✓	✓	✓	✓
Current Consumption		105mA	105mA	205mA	205mA	405mA	405mA
Dimensions in mm(L X W)		74 x 90	87 x 126	134 x 90	134 x 126	269 x 90	262x126
Part No.		UL24D04-SSR-AC	UL24D04-OFI-SSR-AC	UL24D08-SSR-AC	UL24D08-OFI-SR-AC	UL24D16-SSR AC	UL24D16-OFI-SSR-AC
Ordering Code		086020100001	086020100007	086020200008	086020200003	086020300005	086020300003

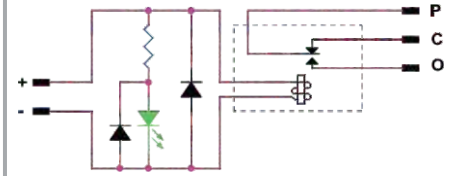
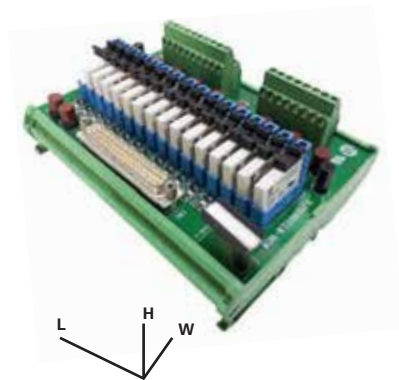
Application Industry



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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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	170mA	400mA
Dimensions in mm(L X W)		67 X 126	105 x 126	132 x 126	217 x 126	252 x 126	260 x 126
Part No.		ULSLM08-C	ULSLM08-OFI-NO-V1	ULSLM16-NO	UL24D16DOSLM-1NOW-P	UL32DO-C-TB-SLM	UL24D32DO-C-D37-SRC
Ordering Code		086010100047	086010100018	086010200021	085030300088	085030400006	085030400001

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 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

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 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	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.





Auxiliary Power Supply

Field Power Supply	24VDC
System Power supply	24VDC

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

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
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 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	410mA	320mA
Dimensions in mm(L X W)		107X126	141X126	232X90	253X126	262.5x126
Part No.		UL08DIFI-D15-VF-CMPT	UL16DIFI-RED-D25-VF-CMPT	UL24D16DI-C-D25-RDG	UL16DIFI-C-D25-V1-XOR	UL32DIFI-D37-VF-CMP
Ordering Code		085010100006	085010200007	210316110009800	085010200022	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	15mA	410mA	180mA
Dimensions in mm(L X W)		110X126	172X126	170X126	269X90	312x126
Part No.		UL08DIF-RED-D15	UL16DIFI-RED-D25-VF-CMPT-SK	UL16DIFI-RED-D25-VF-CMPT	UL24D16DI-RED-2C-D25	UL32DIFI-RED-D37-VF-CMPT
Ordering Code		085010100012	085020200031	085020200005	085020200018	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

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 Output Data

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

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 Power Supply

Aux Voltage	24VDC
Power ON Status	Green LED

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

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
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 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	UL16DIF-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		085020200016	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

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 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

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 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	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Auxiliary Power Supply

Field Power Supply	110VAC
System Power Supply	24VDC

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

Channel Density	Fuse, 100mA	-	✓	✓	✓	✓
Protection	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 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

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 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	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Auxiliary Power Supply

Field Power supply	230VAC
System Power supply	24VDC

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 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
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 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.

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 Output Data

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

Field Side Termination

Terminal Type	Screw Terminal
Nominal Current /Sq.mm	24A/ 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	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

Field Power Supply

Aux Voltage	110VAC/230VAC
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, G2R 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
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 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.		UL110A16DIFIFTA1CO-D37	UL110A16DIFTA1CO-D37SNB	UL230A16DIFIFTA1CO-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

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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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		16	
Protection	Contact Fuse	-	-	✓	✓	✓	✓
	Fuse, LED	-	-	✓	✓	✓	✓
Pot-free Contact		✓	✓	✓	-	✓	✓
Wetted Contact		-	-	-	✓	✓	✓
Configuration	Source	✓	✓	✓	✓	✓	✓
	Sink	-	-	-	-	-	-
Current Consumption		210mA	410mA	410mA	410mA	410mA	410mA
Dimensions in mm (L X W)		147 X 90	272 X 90	269 X 126	280x126	298 X 126	
Part No.		UL24D08DO-C-D15-R1	UL24D16DO-C-D25-CMPT	UL16DOFI-CD25-VF-CMPT-XOR	UL24D16DOWFI-COB	UL24D16DOFI-PF-WT-C-D25	
Ordering Code		085030100016	085030300054	085030300133	085030300134	085030300135	

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

Channel Density		16		16	
Protection	Contact Fuse	-	-	-	-
	Fuse, LED	-	-	-	-
Pot-free Contact		✓	✓	✓	✓
Wetted Contact		-	-	-	-
Configuration	Source	✓	✓	✓	✓
	Sink	-	-	-	✓
Current Consumption		410mA	410mA	410mA	410mA
Dimensions in mm (L X W)		277X126	252X126	252X126	252X126
Part No.		UL16DORED-CD25-OB	UL16DOPS-RED-C-D25	UL16DORED-CD25-OB-SK	
Ordering Code		085040300003	085040300031	085040300035	

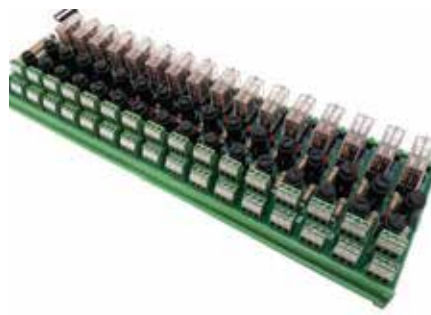
Note: Digital Output Relay Interface modules are available in wide permutations & combinations.

- 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.

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 Protection	Green LED 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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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
Dimensions in mm (L X W)	257 X 126	267 X 126	268 X126	372 X 126	442 X 126	396 X 126	
Part No.	UL24D16DO25M-2C-OB	UL24D16DO-WT-2C-D25	UL24D16DOPSRED-1W1CO-2C-D25	UL24D16DO-OFI-2C-D25	UL24D16DO2WFI-2C-D25-24VDC	UL24D16DO1WFI1COF-D25	
Ordering Code	085040300031	085040300021	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
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-2C-D25	UL24D16DO-RED-2WFI-2C-D25	UL24D16DO-RED-2PFI-2C-D25	UL24D16DO-RED-1WFI1CO-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.

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)

Channel Density	16			
Protection	Contact Fuse	-	✓	✓
	Fuse, LED	-	✓	✓
Pot-free Contact	✓	✓	-	-
Wetted Contact	-	-	✓	✓
Current Consumption	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	UL16DOFTA-WFI-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.

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)

Field Output Data

Input Status LED/Channel Protection	Green LED
Signal Configuration	Back emf
Termination	Differential
	37 Pin D-Sub Connector

Field Side Termination

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 Power Supply

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.
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	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
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
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.

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	3 way Isolation (Optical)
(Refer selection matrix)	Channel to Channel, Input to Output Power Supply to Field Channel
Termination	Screw Terminals

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

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

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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
Insulation material	PA/I
Tightening torque	0.6 Nm Max.

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

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
Dimensions in mm (L X W)		82X126MM	96X126MM	182X126MM
Part No.		UL04AI-2WFI-4WF-D15-V-SPD	UL08AI-2WFI-4WF-D25-VF-CMPT	UL08AI-2W4W-ISO-D25-4W
Ordering Code		085050100001	085050200001	091020100022

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	1110mA
Dimensions in mm (L X W)		152X90MM	282X126MM
Part No.		UL08AI-RED-D25-SPD-I-I-72-VF	UL08AI-RED-2W4W-ISO-D25
Ordering Code		085060100002	091020100034

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 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

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

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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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

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

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 MSTB Plug-in type
Field Wiring Configuration	Two wire interrogation	Contact Material	Copper Alloy
Protection	Current limiting	Operating Current	5 A per contact
Status Indication	Green LED for Input Status Red LED for Wire Break Orange LED for Wire Open	Contact Resistance	≤ 10mΩ
External EOL Resistor termination on field	Series & Parallel Resistor network across field pot free contact (Refer selection matrix)	Insulation Resistance	≥ 5000 MΩ
Termination	Screw Terminals	Maximum Voltage	1000 Vrms
System Output Data		Field Side Termination	
Output Signal Voltage	24VDC	Terminal Type	Screw Terminal
Signal Mode	Redundant /Non. Redundant	Nominal Current /Sq.mm	24A/ 2.5mm ²
Configuration	High going	Rated Voltage	250V
Alarm contact	Alarm contacts	Rated surge Voltage	4KV
Termination	25 Pin D-Sub Connector or MSTB Screw type Plug in connector	Solid/ Stranded	0.2-4/ 0.2-2.5/ 24-12
Auxiliary Power Supply		[mm ² / mm ²] AWG	
Field Power Supply	24VDC	Insulation material	PA/I
System Power supply	24VDC	Stripping Length	8mm
		Tightening torque	0.6 Nm Max.
		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	-	-	✓ (modbus)
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 reedback.
- DI LFD Module with alarm contact for each channel require additional DI channels for fault reedback on controller.
- DI LFD Module with fault status read on modbus if used than additional DI channel for fault reedback 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 [H x 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 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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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



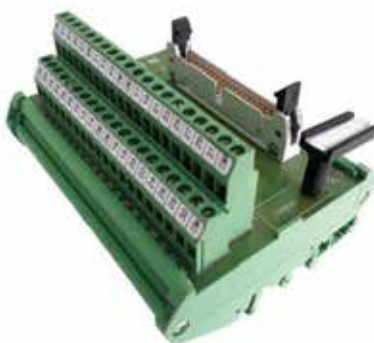
Note: Passive Module with D sub connector to terminals with LED Indication is available on request.
Specify Prefab cable length while ordering.

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		System Side Termination	
Number of Positions	10, 16, 20, 34, 40, 50, 64	Plug-in Connector type	IDC/FRC
Operating Voltage	Max. 60V AC/DC	Contact Material	Copper Alloy
Current Rating / Channel	1.5 Amp.	Operating Current	5 A per contact
Test Voltage	500V, 1min	Contact Resistance	≤ 20mΩ
Terminations	Control Side	Insulation Resistance	≥ 5000 MΩ
	Field Side	Maximum Voltage	1000 Vrms
Connection Type	Control Side	Field Side Termination	
	Field Side	Terminal Type	Screw Terminal
		Nominal Current /Sq.mm	24A/ 2.5mm ²
Environment/ Compliance Data		Rated Voltage	250V
Ambient temperature	0°C to +60°C	Rated surge Voltage	4KV
Relative humidity	Max. 90% (Non-condensing)	Solid/ Stranded	0.2-4/ 0.2-2.5/ 24-12
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B	[mm ² / mm ²] AWG	
Screw- Terminals	UL, CSA Standard & CE standard	Insulation material	PA/I
Mounting	Din Rail Mountable	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		System Side Termination	
Number of Positions	20, 38, 56, 90	Plug-in Connector type	EDAC/ELCO
Operating Voltage	Max. 120V AC/DC	Contact Material	Copper Alloy
Current Rating / Channel	2 Amp.	Operating Current	8.5 A per contact
Test Voltage	500V, 1min	Contact Resistance	≤ 10mΩ
Terminations	Control Side EDAC/Elco Male Connector	Insulation Resistance	≥ 5000 MΩ
	Field Side Screw Type Terminals	Maximum Voltage	2000 Vrms
Connection Type	Control Side Multicore Sh./Non-Shielded Cable 20-56 Core, 0.34 mm ²	Field Side Termination	
	Field Side Wire Size 2.5 mm ²	Terminal Type	Screw Terminal
Environment/ Compliance Data		Nominal Current /Sq.mm	24A/ 2.5mm ²
Ambient temperature	0°C to +60°C	Rated Voltage	250V
Relative humidity	Max. 90% (Non-condensing)	Rated surge Voltage	4KV
PCB design	UL standard ANSI IPC 2221, 2222 & MIL 275B	Solid/ Stranded	0.2-4/ 0.2-2.5/ 24-12
		[mm ² / mm ²] AWG	
Screw- Terminals	UL, CSA Standard & CE standard	Insulation material	PA/I
Mounting	Din Rail Mountable	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-XOR	ULELCO38-38-XOL	ULELCO56-56M-XOR-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	5Am @ 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	0.2-4/ 0.2-2.5/ 24-12
[mm ² / mm ²] AWG	
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	≥ 5000 MΩ @ 100V
@ 500Vdc	
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

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 (LXWXH)	137mm × 90mm × 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 × 20mm Glass Fuse
Opto-coupler output Rating	60mA @ 24VDC
Dimension (L × W × H)	112mm × 90mm × 90mm
Mounting	Universal rail
Screw- terminals	UL, CSA Standard & CE standard
Part no	UL24D08PDB-OFI-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)



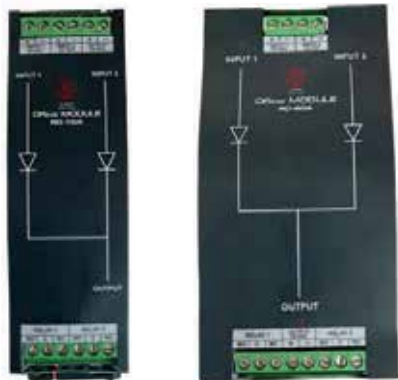
Features:

- 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)



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

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

Fan Failure Detection Module for 2 Fans with Temperature Monitoring



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.

Technical Data:

Input	Inbuilt Electronic temperature sensor.
Temperature Display	Three 0.4" inch seven-segment red LED displays.
Measuring	000-099° C
Temperature Range	
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-FFTDU-ALM-4-20MA
Ordering Code	091010100002

Fan Failure Detection Module for 4 Fans with Temperature Monitoring



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.

Technical Data:

Input	Built-in Electronic Temperature Sensor
Display	Two 0.4" inch seven segment red LED displays
Measuring	0-99° C
Temperature Range	
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-FFTDU-ALM-4-20MA
Ordering Code	091010100003

Digital Thermostat



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

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

Temperature Monitoring Unit



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

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	091010100005

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
			ULFOPP-12P-DIN-MN-SCMM-SPX
			ULFOPP-12P-DIN-MN-SCMM-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

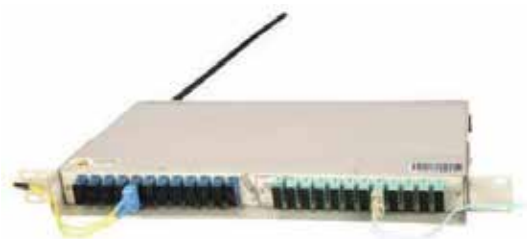
Model	Product Description	Dimension in mm (H x W x D)	Model Number
WALL	6/8 Port wall Mount Loaded LIU	260 x 230 x 60	ULFOPP-6P-WM-SCSM-SPX
			ULFOPP-6P-WM-SCSM-DPX
			ULFOPP-6P-WM-SCMM-SPX
			ULFOPP-6P-WM-SCMM-DPX
			ULFOPP-6P-WM-STSM-SPX
			ULFOPP-6P-WM-STMM-SPX
			ULFOPP-6P-WM-LCSM-DPX
			ULFOPP-6P-WM-LCMM-DPX
			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-DPX
			ULFOPP-12P-WM-LCMM-DPX
			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-DPX
			ULFOPP-24P-WM-LCMM-DPX
			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-DPX
			ULFOPP-48P-WM-LCMM-DPX
			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-DPX
			ULFOPP-6P-RM-MN-LCMM-DPX
			ULFOPP-6P-RM-MN-FCSM-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-SCSM-DPX
			ULFOPP-24P-RM-1U-SCMM-DPX
			ULFOPP-24P-RM-1U-STSM-SPX
			ULFOPP-24P-RM-1U-STMM-SPX
			ULFOPP-24P-RM-1U-LCSM-DPX
			ULFOPP-24P-RM-1U-LCMM-DPX
			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-SCSM-DPX
			ULFOPP-48P-RM-2U-SCMM-DPX
			ULFOPP-48P-RM-2U-STSM-SPX
			ULFOPP-48P-RM-2U-STMM-SPX
			ULFOPP-48P-RM-2U-LCSM-DPX
			ULFOPP-48P-RM-2U-LCMM-DPX
			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-STSM-SPX
			ULFOPP-96P-RM-4U-STMM-SPX
			ULFOPP-96P-RM-4U-LCSM-DPX
			ULFOPP-96P-RM-4U-LCMM-DPX
			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-DPX
			ULFOPP-24P-SRM-1U-SCMM-DPX
			ULFOPP-12P-SRM-1U-STSM-SPX
			ULFOPP-12P-SRM-1U-STMM-SPX
			ULFOPP-24P-SRM-1U-LCSM-DPX
			ULFOPP-24P-SRM-1U-LCMM-DPX
			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-DPX
			ULFOPP-96P-SRM-2U-SCMM-DPX
			ULFOPP-48P-SRM-2U-STSM-SPX
			ULFOPP-48P-SRM-2U-STMM-SPX
			ULFOPP-96P-SRM-2U-LCSM-DPX
			ULFOPP-96P-SRM-2U-LCMM-DPX
			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-DPX
			ULFOPP-96P-SRM-4U-LCMM-DPX
			ULFOPP-192P-SRM-4U-LCSM-DPX
			ULFOPP-192P-SRM-4U-LCMM-DPX
			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.

Fiber Optic Patch Cables

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 62.5uM, 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 VCSEL 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:

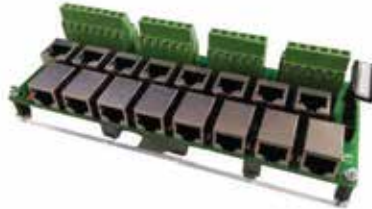
FOPC-XX-YY-ZZ-PPX-OOO

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 Channel 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 disconnecter



Genset ON/OFF
Relay Module



16 Channel FTA for
IOTA module



MTL
LFDDI FTA



MPG BOX with Selector
switchc 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



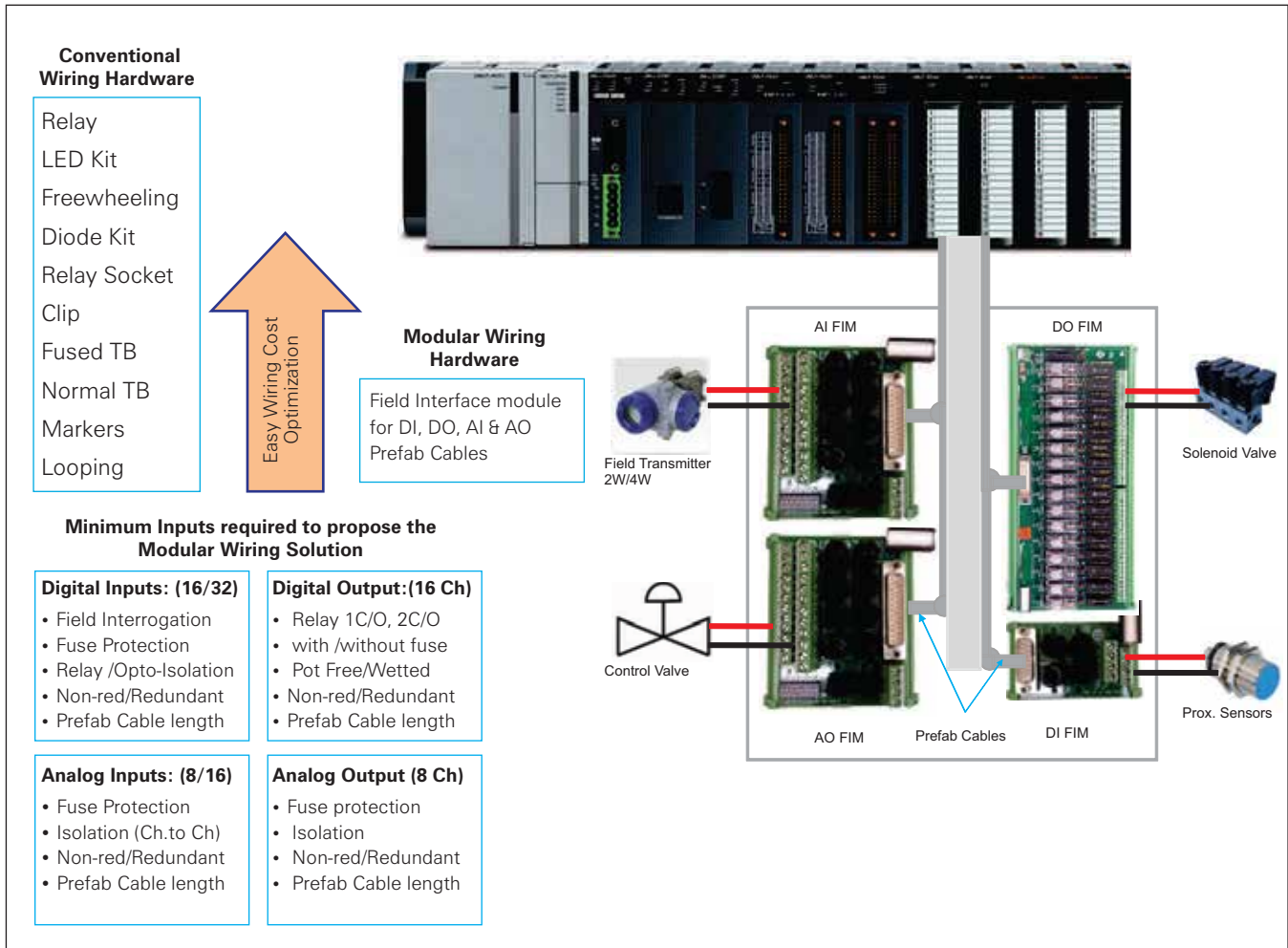
STP/UTP
Cable harness



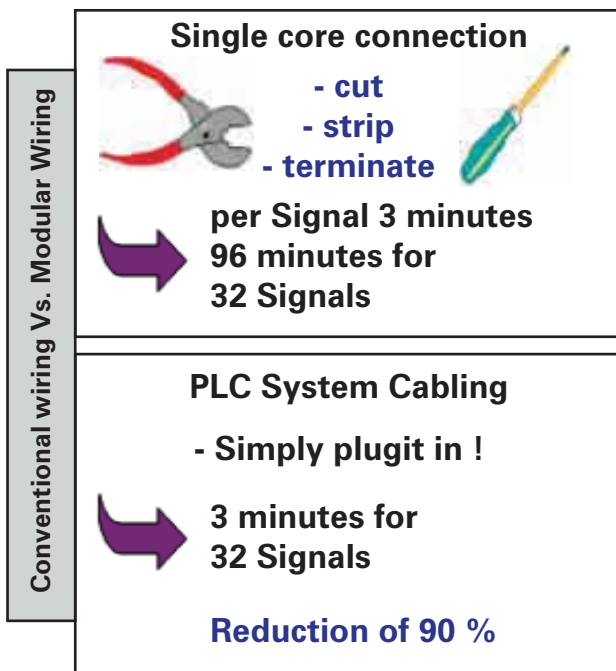
CNC cable with 20 pin PCR connector at one end & D connector at other end



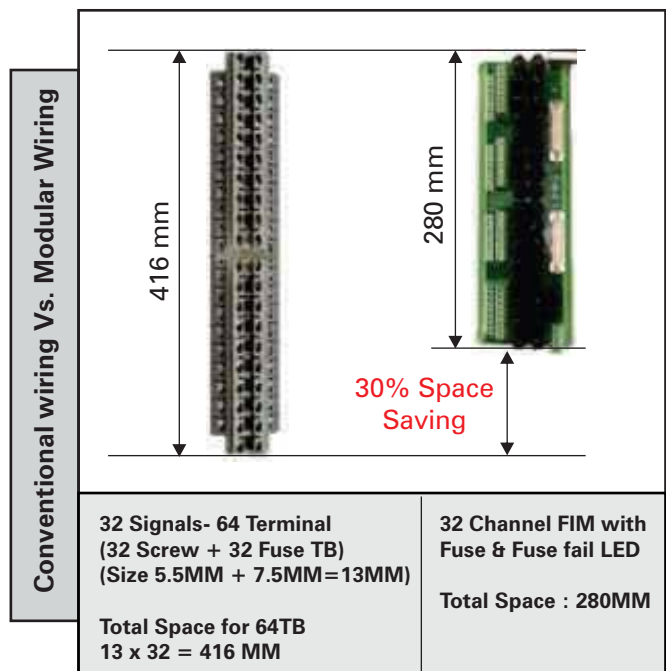
Prefab cable with ELCO connector at one end and flying leads at other end



Time Saving



Space Saving



GLOBAL SOLUTIONS



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