

**IMOPTRFx/24P/24P**



**Opto Transistor Module Source To Source Type With Fuse Protection (+24 VDC Input)**

- Solid state switching technology allows switching speeds upto 20 MHz
- No physical / mechanical switching operation hence an operation life which is 10<sup>4</sup> times more than electro mechanical relays.
- Solid state technology ensures 100% switching with absolute no bounce or chatter.
- The transistor coupled with optical isolators ensure a higher isolation level between the input and output.
- Option of fuse protection at output side.

**GENERAL SPECIFICATION**

Ambient Operating Temperature	-20 to +50 °F
Housing Colour	Green
Housing Material	PVC / V0 Grade
Load Protection Method	Using 1N4007 Freewheeling Diode
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Signal on Indication	3mm Red LED
Supply Voltage Indication	3mm Green LED
Switching device	Transistor

**FUSE SPECIFICATIONS**

Fuse Rating	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3 A
Fuse Size	5 x 20 mm
Fuse Type	Fast Blow

**CONNECTION SPECIFICATIONS**

Type of Connection	Screw Connection
Min. Wire Size	0.5 mm <sup>2</sup>
Max. Wire Size	2.5 mm <sup>2</sup>
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	0.5 Nm
Torque	4.5 lb-in

**FUSE HOLDER SPECIFICATIONS**

Cap Design	Flat
Fuse Size	5 x 20 mm
Mounting type	Horizontal
Rated Current	6.3 A

**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
IMOPTRF8/24P /24P	8CH (+24VDC Input) Opto Transistor Module (Source to Source Type) With Output Fuse Protection Rail Mount	1	111 X 120 X 65	8

**ACCESSORIES**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50

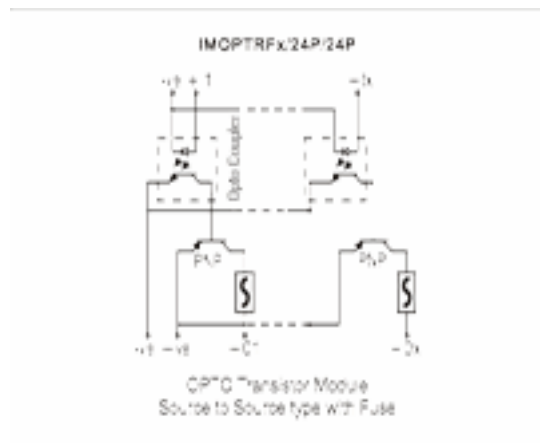
**ACCESSORIES....**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA509/K2	Marking Tag Blank suitable for CDL4U / CDL4U(I,S) / CTL2.5U / CTL2.5UH / CTL2.5UL / CTL2.5HUL / CTL2.5U(I,S) / CTL2.5U(I,S)D2 / CGMT4 / CSFL4U / CSFL4U(L) / CMT4 / CMB4 / ASF4 / ASF4(L) / CTS2.5()	100
	SCS0.5/3	Electricians Screwdriver for slotted screws	10

**TRANSISTOR SPECIFICATIONS**

Rated Input Voltage	+24 VDC
Rated Output Switching Voltage	+24 VDC
Transistor Type	BDX-54C

**CIRCUIT DIAGRAM**



IMOPTRxx/24P/24P



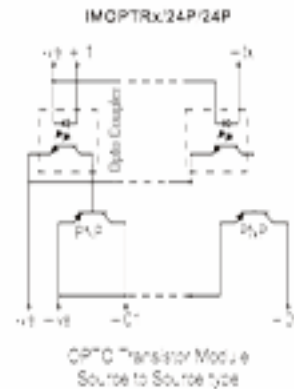
**Opto Transistor Module Source To Source Type (+24 VDC Input)**

- Solid state switching technology allows switching speeds upto 20 MHz
- No physical / mechanical switching operation hence an operation life which is 10<sup>5</sup> times more than electro mechanical relays.
- Solid state technology ensures 100% switching with absolute no bounce or chatter.
- The transistor coupled with optical isolators ensure a higher isolation level between the input and output.
- Option of fuse protection at output side.

**GENERAL SPECIFICATION**

Ambient Operating Temperature	-20 to +50 °C
Housing Colour	Green
Housing Material	PVC / V0 Grade
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Signal on Indication	3mm Red LED
Supply Voltage Indication	3mm Green LED
Switching device	Transistor

**CIRCUIT DIAGRAM**



**CONNECTION SPECIFICATIONS**

Type of Connection	Screw Connection
Min. Wire Size	0.5 mm <sup>2</sup>
Max. Wire Size	2.5 mm <sup>2</sup>
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	0.5 Nm
Torque	4.5 lb-in

**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
IMOPTR8/24P/24P	8CH (+24VDC Input) Opto Transistor Module (Source to Source Type) With Rail Mount	2	52X 120 X 74	1

**ACCESSORIES**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA509/K2	Marking Tag Blank suitable for CDL4U / CDL4U(I.S) / CTL2.5U / CTL2.5UH / CTL2.5UL / CTL2.5HUL / CTL2.5U(I.S) / CTL2.5U(I.S)D2 / CGMT4 / CSFL4U / CSFL4U(L) / CMT4 / CMB4 / ASF4 / ASF4(L) / CTS2.5()	100
	SCS0.5/3	Electricians Screwdriver for slotted screws	10

**TRANSISTOR SPECIFICATIONS**

Rated Input Voltage	+24 VDC
Rated Output Switching Voltage	+24 VDC
Transistor Type	BDX-54C

**IMTRFxx/24N/24N**



**Transistor Module Sink To Sink Type With Fuse Protection (-24 VDC Input)**

- Solid state switching technology allows switching speeds upto 20 MHz
- No physical / mechanical switching operation hence an operation life which is 10<sup>5</sup> times more than electro mechanical relays.
- Solid state technology ensures 100% switching with absolute no bounce or chatter.
- The transistor coupled with optical isolators ensure a higher isolation level between the input and output.
- Option of fuse protection at output side.

**GENERAL SPECIFICATION**

Ambient Operating Temperature	-20 to +50 °C
Housing Colour	Green
Housing Material	PVC / V0 Grade
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Signal on Indication	3mm Red LED
Supply Voltage Indication	3mm Green LED
Switching device	Transistor(NPN)

**FUSE SPECIFICATIONS**

Fuse Rating	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3 A
Fuse Size	5 x 20 mm
Fuse Type	Fast Blow/Slow Blow

**CONNECTION SPECIFICATIONS**

Type of Connection	Screw Connection
Min. Wire Size	0.5 mm <sup>2</sup>
Max. Wire Size	2.5 mm <sup>2</sup>
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	0.5 Nm
Torque	4.5 lb-in

**RELAY INPUT / COIL SPECIFICATIONS**

Nominal Operating Voltage	-24 VDC
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**FUSE HOLDER SPECIFICATIONS**

Cap Design	Flat
Fuse Size	5 x 20 mm
Mounting type	Horizontal
Rated Current	6.3 A

**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
IMTRF8/24N/24N	8CH (-24VDC Input) Transistor Module (Sink to Sink Type) With Output Fuse Protection Rail Mount	16	312X 120 X 74	1

**ACCESSORIES**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50

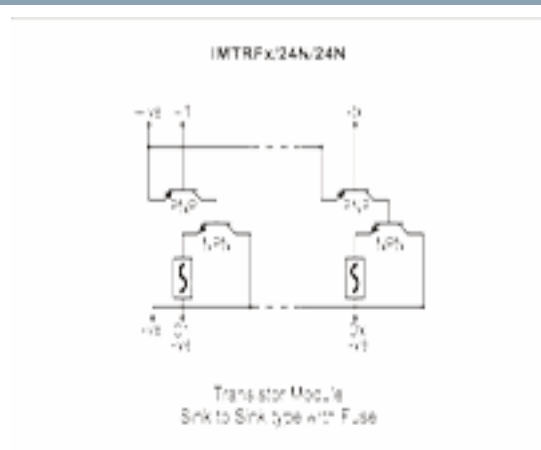
**ACCESSORIES....**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA509/K2	Marking Tag Blank suitable for CDL4U / CDL4U(I,S) / CTL2.5U / CTL2.5UH / CTL2.5UL / CTL2.5HUL / CTL2.5U(I,S) / CTL2.5U(I,S)D2 / CGMT4 / CSFL4U / CSFL4U(L) / CMT4 / CMB4 / ASF4 / ASF4(L) / CTS2.5()	100
	SCS0.5/3	Electricians Screwdriver for slotted screws	10

**TRANSISTOR SPECIFICATIONS**

Rated Input Voltage	-24 VDC
Rated Output Switching Voltage	-24 VDC
Transistor Type	BDX-53C

**CIRCUIT DIAGRAM**



IMTRxx/24N/24N



**Transistor Module Sink To Sink Type (+24 VDC Input)**

- Solid state switching technology allows switching speeds upto 20 MHz
- No physical / mechanical switching operation hence an operation life which is 10<sup>5</sup> times more than electro mechanical relays.
- Solid state technology ensures 100% switching with absolute no bounce or chatter.
- The transistor coupled with optical isolators ensure a higher isolation level between the input and output.

**GENERAL SPECIFICATION**

Ambient Operating Temperature	-20 to +50 °C
Housing Colour	Green
Housing Material	PVC / V0 Grade
Mounting Possibility	DIN32 / DIN35 / DIN35-15 / PANEL
Signal on Indication	3mm Red LED
Supply Voltage Indication	3mm Green LED
Switching device	Transistor(NPN)

**FUSE SPECIFICATIONS**

Fuse Rating	0.1, 0.5, 0.63, 1, 2, 3, 4, 5, 6, 6.3 A
Fuse Size	5 x 20 mm
Fuse Type	Fast Blow

**CONNECTION SPECIFICATIONS**

Type of Connection	Screw Connection
Min. Wire Size	0.5 mm <sup>2</sup>
Max. Wire Size	2.5 mm <sup>2</sup>
Min. Wire Size(AWG)	30 AWG
Max. Wire Size(AWG)	14 AWG
Wire Stripping Length	8.3 mm
Torque	0.5 Nm
Torque	4.5 lb-in

**RELAY INPUT / COIL SPECIFICATIONS**

Nominal Operating Voltage	-24 VDC
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**FUSE HOLDER SPECIFICATIONS**

Cap Design	Flat
Fuse Size	5 x 20 mm
Mounting type	Horizontal
Rated Current	6.3 A

**ORDERING INFORMATION**

CAT. NO.	DESCRIPTION	NO. OF CHN.	DIM. DET.	STD. PACK
IMTR8/24N/24N	8CH (-24VDC Input) Transistor Module (Sink to Sink Type) Rail Mount	16	316 X 88 X 65	1

**ACCESSORIES**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	CA501-1M	Din 32 Rail unslotted 1 meter	50
	CA501-1M-S	Din 32 Rail slotted 1 meter	50
	CA501-2M	Din 32 Rail unslotted 2 meter	50
	CA501-2M-S	Din 32 Rail slotted 2 meter	50
	CA701-1M	Din 35 Rail unslotted 1 meter	50
	CA701-2M	Din 35 Rail unslotted 2 meter	50
	CA701-2M-S	Din 35 Rail slotted 2 meter	50
	CA701-1M-S	Din 35 Rail slotted 1 meter	50
	CA701-15-1M	Din 35 Rail 15 deep unslotted 1 meter	50
	CA701-15-1M-S	Din 35 Rail 15 deep slotted 1 meter	50
	CA701-15-2M	Din 35 Rail 15 deep unslotted 2 meter	50
	CA701-15-2M-S	Din 35 Rail 15 deep slotted 2 meter	50
	CA509/K2	Marking Tag Blank suitable for CDL4U / CDL4U(LS) / CTL2.5U / CTL2.5UH / CTL2.5UL / CTL2.5HUL / CTL2.5U(LS) / CTL2.5U(LS)D2 / CGMT4 / CSFL4U / CSFL4U(L) / CMT4 / CMB4 / ASF4 / ASF4(L) / CTS2.5	100

**ACCESSORIES....**

IMAGES	CAT. NO.	DESCRIPTION	STD. PACK
	SCS0.5/3	Electricians Screwdriver for slotted screws	10

**TRANSISTOR SPECIFICATIONS**

Rated Input Voltage	-24 VDC
Rated Output Switching Voltage	-24 VDC
Transistor Type	BDX-53C

**CIRCUIT DIAGRAM**

