

## IDC Series

### DC Input Module

cULus File E29244

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### Features

- Industry standard package and pin-out.
- Color coded by function.
- 4000V rms optical isolation.
- High immunity to false operation.
- Series compatible.
- Compatible with 2IOM series mounting boards.

#### Engineering Data

**Switch Form:** 1 Form A (SPST-NO)

**Duty:** Continuous.

**Operating Temperature:** -30°C to +80°C.

**Storage Temperature:** -30°C to +100°C.

**Potting Compound Flammability:** UL94V-0.

**Solderability:** 260°C for 5 seconds, maximum.

**Approximate Weight:** 1.38 oz. (35g).

#### Ordering Information

Typical Part Number >

**IDC**

**-5**

**A**

**1. Basic Series:** IDC = DC input module - white case

**2. Logic Voltage:** 5 = 5VDC  
15 = 15VDC  
24 = 24VDC

**3. Input:** Blank = 3.3-32VDC input \*\*  
A = 10-60VDC input \*\*  
F = 4-32VDC input & fast turn-on & turn-off times \*\*

\*\* Is not polarity sensitive.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

IDC-5  
IDC-24

#### Input Specifications

Parameter	Conditions	Units	IDC-5			IDC-5A			IDC-5F		
			IDC-15	IDC-24		IDC-15A	IDC-24A		IDC-15F	IDC-24F	
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Control Voltage Range $V_{IN}$		VDC	3	24	32	10	30	60	4	24	32
Must Operate Voltage $V_{IN(OP)}$		VDC	3			10			4		
Must release Voltage $V_{IN(REL)}$		VDC	1			1			1		
Maximum Input Current	@ $V_{IN}$ =Max.	mA	0.1 - 10			0.1 - 10			0.1 - 10		
Input Resistance		Ohms	Current Regulator								

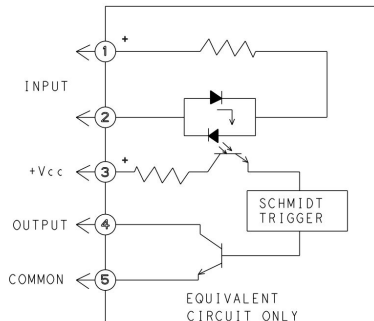
## IDC Series (Continued)

### DC Input Module

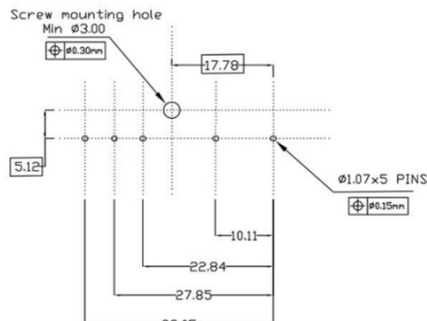
#### Output Specifications (@ +25°C unless otherwise specified)

Parameter	Conditions	Units	IDC-5			IDC-15			IDC-24		
			IDC-5A	IDC-5F		IDC-15A	IDC-15F		IDC-24A	IDC-24F	
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Maximum Output Voltage		VDC			30			30			30
Maximum Output Current		mADC			50			50			50
Maximum Output Leakage Current	V <sub>OUT</sub> =Max.	μADC			10			10			10
Maximum Output Voltage Drop	I <sub>SINK</sub> =50mA	VDC			0.2			0.2			0.2
Logic Supply Voltage V <sub>CC</sub>		VDC	3	5	6	12	15	18	20	24	30
Logic Supply Current	V <sub>CC</sub> =Max.	mADC			15			15			15
Turn-On Time (Nominal)	I <sub>SINK</sub> =25mA	ms		1			1			1	
Turn-Off Time (Nominal)	I <sub>SINK</sub> =25mA	ms		1			1			1	
Output Type (Open Collector)			Normally Open (SINKING)			Normally Open (SINKING)			Normally Open (SINKING)		

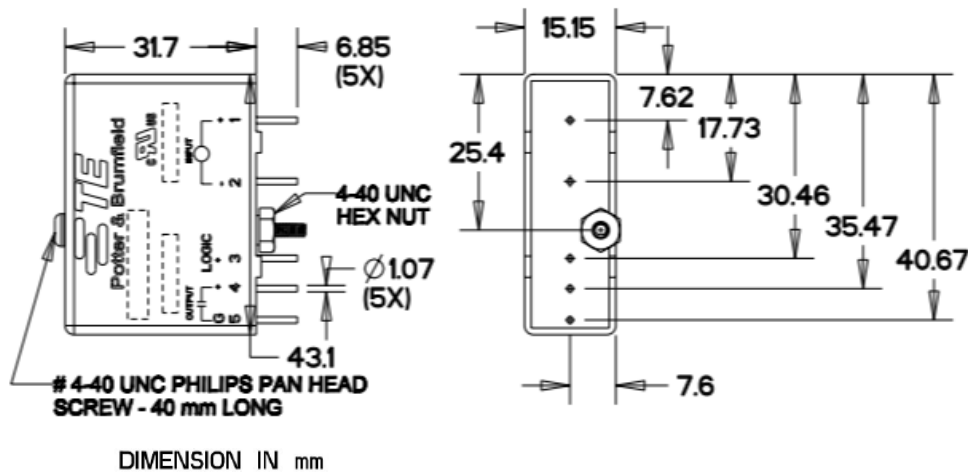
#### IDC Operating Diagram



#### PCB Layout



#### Outline Dimensions



**Note :** Extra nut and washer will be provided on the screw, which will goes under PCB to fix the relay.

Hex Nut S= 6.35 (width across flats), Thickness = 2.40

Washer = OD :  $\Phi 4.85 \pm 0.25$ , ID:  $\Phi 2.75 \pm 0.15$ , Thickness = 0.55