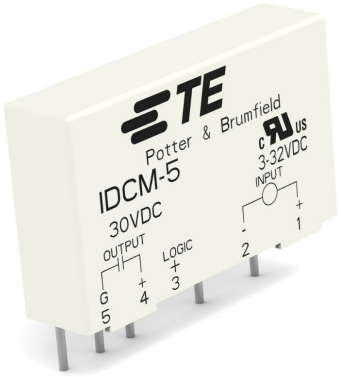

IDCM Series

Slim Line
DC Input Module

c UL us 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

- Slim line .4" (10.16mm) thick package.
- Foot print same as .6" (15.24mm) thick package.
- 4000V rms optical isolation.
- Color coded by function.
- 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: .87 oz. (22.1g).

Ordering Information

Typical Part Number >	IDCM	–5	A

1. Basic Series: IDCM = Slim line 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.

IDCM-5

Input Specifications

Parameter	Conditions	Units	IDCM-5 IDCM-15 IDCM-24			IDCM-5A IDCM-15A IDCM-24A			IDCM-5F IDCM-15F IDCM-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		
Max. Input Current	@V_{IN}=Max.	mA	0.1 - 10			0.1 - 10			0.1 - 10		
Input Resistance		Ohms	Current Regulator								

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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

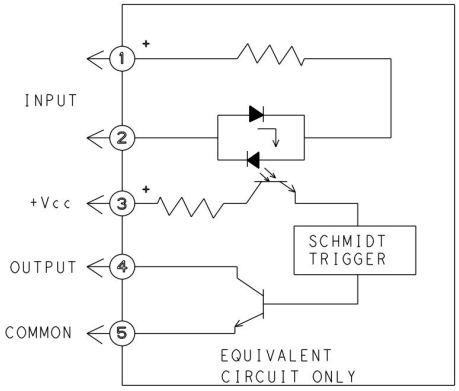
IDCM Series(Continued)

DC Input Modules

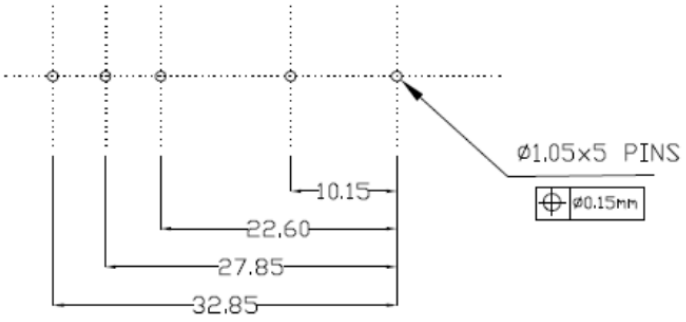
Output Specifications (@ +25°C unless otherwise specified)

Parameter	Conditions	Units	IDCM-5 IDCM-5A IDCM-5F			IDCM-15 IDCM-15A IDCM-15F			IDCM-24 IDCM-24A IDCM-24F		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Maximum Output Voltage		VDC			30			30			30
Maximum Output Current I_{SINK}		mADC			50			50			50
Maximum Output Leakage Current	V_{OUT}=Max.	µADC			10			10			10
Maximum Output Voltage Drop	I_{SINK}=50mA	VDC			0.2			0.2			0.2
Logic Supply Voltage V_{CC}		VDC	3	5	6		15			24	
Maximum Logic Supply Current	V_{CC}=Max.	mADC			15			15			15
Turn-On Time (Nominal)	I_{SINK}=25mA	ms		1			1			1	
Turn-Off Time (Nominal)	I_{SINK}=25mA	ms		1			1			1	
Output Type (Open Collector)			Normally Open (SINKING)			Normally Open (SINKING)			Normally Open (SINKING)		

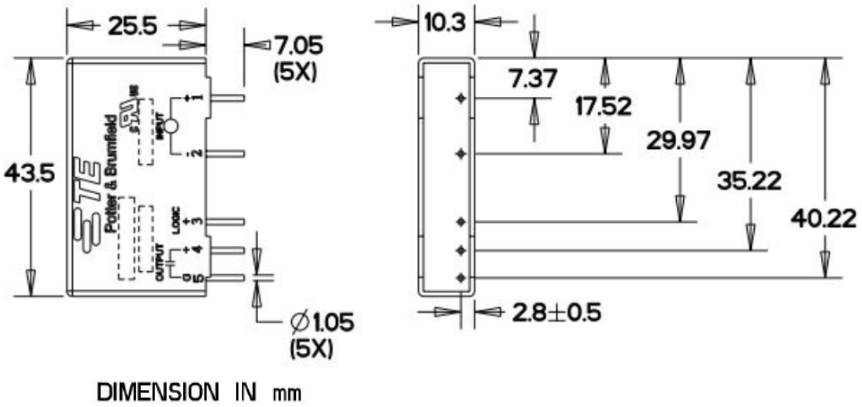
IDCM Operating Diagram



PCB Layout



Outline Dimensions



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IDCM-5