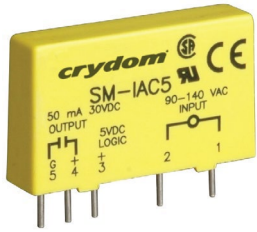


**SM SERIES INPUT MODULES**



- Plug into mounting boards for SM Series modules
- AC Inputs (Yellow Case) for 24 V, 120 V, 240 V
- DC Inputs (White Case) for 3.3 to 32 V, 10 to 48 V
- 4kV Optical isolation
- Open-collector Output
- Industry standard packaging

**SPECIFICATIONS (1)**

*Input*

Part Number	SM-IAC5	SM- IAC5A	SM- IAC24	SM- IAC24A	SM-IDC5
Voltage Range	90-140 VAC/DC	180-280 VAC/DC	90-140 VAC/DC	180-280 VAC/DC	3.3-32 VDC/AC
Maximum Current [mA](4)	6	5	6	5	34
Resistance [Ohms](2)(3)	28 k	75 k	28 k	75 k	500
Drop-out Current [mA](5)	2	1.5	2	1.5	1.0
Voltage for No Output [VAC/VDC](6)	50	50	50	50	2.0
Allowable Current [mA]	2.5	2	2.5	2	1.5

*Output*

Maximum Voltage[VDC](9)	30	30	30	30	30
Maximum Voltage Drop [VDC](12)	0.2	0.2	0.2	0.2	0.2
Nominal Logic Supply Voltage [VDC]	5.0	5.0	24	24	5.0
Logic Supply Voltage Range [VDC]	3.0-6.0	3.0-6.0	20-30	20-30	3.0-6.0
Maximum Current [mA](10)	50	50	50	50	50
Maximum Logic Supply Current [mA](7)	16.0	16.0	16.0	16.0	16.0
Maximum Logic Supply Leakage Current [µA](8)	10.0	10.0	10.0	10.0	10.0
Maximum Leakage Current [µA](11)	10.0	10.0	10.0	10.0	10.0
Maximum Turn-On Time [msec] (13)	20	20	20	20	1.0
Maximum Turn-Off Time [msec] (13)	20	20	20	20	1.0

**SPECIFICATIONS (1)**

*Input*

Part Number	SM-IDC24	SM-IDC5F	SM-IDC5N
Voltage Range	3.3-32 VDC/AC	4-32 V	10-48 VDC/AC
Maximum Current [mA](4)	34	68	34
Resistance [Ohms](2)(3)	1 k	500	1 k
Drop-out Current [mA](5)	1	1	1
Voltage for No Output [VAC/VDC](6)	2	2	4
Allowable Current [mA]	1.5	1.5	1.5

*Output*

Maximum Voltage[VDC](9)	30	30	30
Maximum Voltage Drop [VDC](12)	0.2	0.2	0.2
Nominal Logic Supply Voltage [VDC]	24	5.0	5.0
Logic Supply Voltage Range [VDC]	20-30	3.0-6.0	3.0-6.0
Maximum Current [mA](10)	50	50	50
Maximum Logic Supply Current [mA](7)	16.0	16.0	16.0
Maximum Logic Supply Leakage Current [µA](8)	10.0	10.0	10.0
Maximum Leakage Current [µA](11)	10.0	10.0	10.0
Maximum Turn-On Time [msec] (13)	1.0	0.05	8.0
Maximum Turn-Off Time [msec] (13)	1.0	0.10	7.0