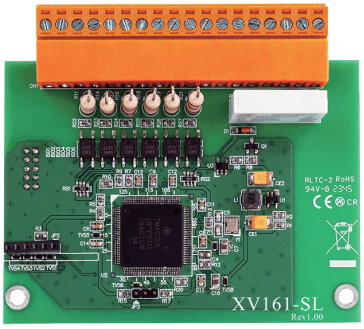


XV161-SL

Single Stack Light (DC-type) Monitoring XV Expansion Board (6 DI + 1 Relay)

Features

- Able to detect the status of each color segment: ON, OFF, or Flashing
- 6 channel DC digital input and 1 channel alarm relay output
- Users-define multiple color segment combinations for status monitoring
- Reports the duration of the previous status
- Digital input provides 70 V_{DC} overvoltage protection
- Digital output provides power-on value and safe value settings

Introduction

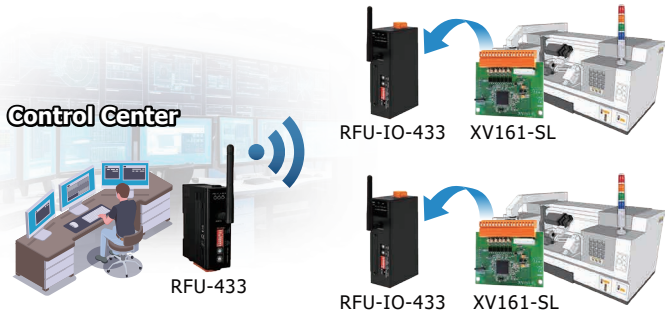
The XV161-SL is an XV Series I/O expansion board featuring 6 channels of DC digital inputs and 1 relay output. It is designed for monitoring the status of stack lights used in MES (Manufacturing Execution System) equipment.

The sub-board can detect whether each color segment of a stack light is off, on, or flashing. In addition to monitoring individual color segments, it also supports defining and reporting multi-color combinations, along with the duration of previous status states, providing comprehensive insight into machine signaling behavior.

Applications

Stack Light Monitoring Solution

Easy to implement stack light status monitoring on an MES to improve machine utilization and throughput.



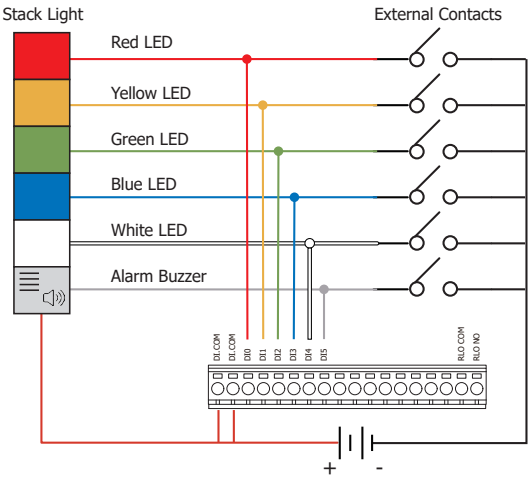
Specifications

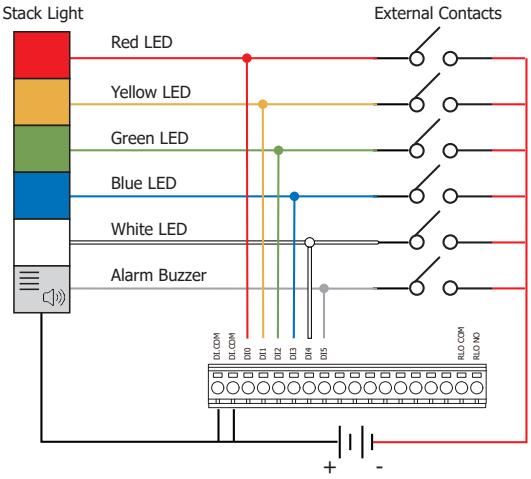
Digital Input		
Channels		6
Input Type		Wet Contact (Sink / Source)
ON Voltage Level		+10 V_{DC} ~ 50 V_{DC}
OFF Voltage Level		+4 V_{DC} Max.
Input Impedance		10 kΩ · 0.5 W
Max. Stack Light Flashing Speed		3 kHz
Detect light status		Can detect the ON, OFF or Flashing status of each color light
User-defined status combination monitoring		Max. 81 combinations
Previous Status Duration Report		10 ~ 65500 Sec.
Overvoltage protection		70 V_{DC}
Isolation		3750 V_{DC}
Relay Output		
Channels		1
Output Type		Power Relay, Form A (SPST N.O.)
Operating Voltage		250 V_{AC} / 30 V_{DC}
Max. Load Current		5 A
Operate Time		6 ms
Release Time		3 ms
Electrical Endurance (Resistive Load)	VDE	5 A @ 250 V_{AC} 30,000 ops (10 ops/min) at 75°C
		5 A @ 30 V_{DC} 70,000 ops (10 ops/min) at 75°C
	UL	5 A @ 250 V_{AC}/30 V_{DC} 6,000 ops
		3 A @ 250 V_{AC}/30 V_{DC} 100,000 ops
Mechanical Life		20,000,000 ops at no load (300 ops/minute)
Power-on Value		Yes, Programmable
Safe Value		Yes, Programmable

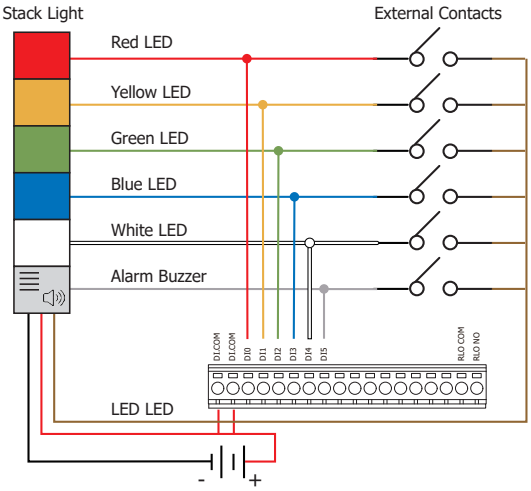
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Wire Connections

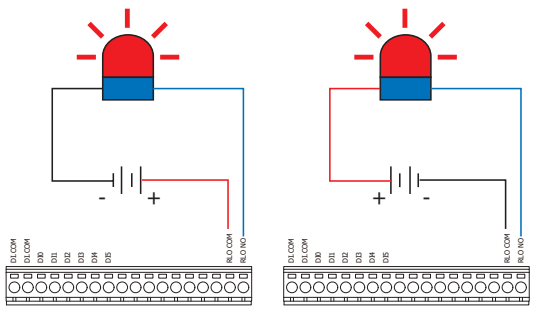
Input Type:



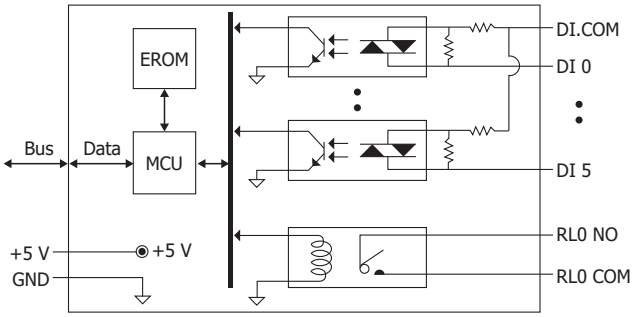




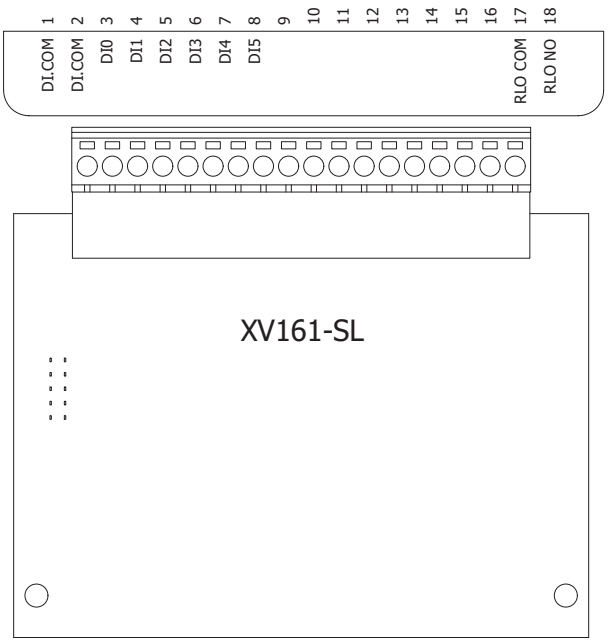
Output Type:



Internal I/O Structure



Pin Assignments



Ordering Information

XV161-SL CR	Single Stack Light (DC-type) Monitoring XV Expansion Board (6 DI + 1 Relay) (RoHS)

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