Isolating Switching Amplifier

ECXI-11/111/1D11

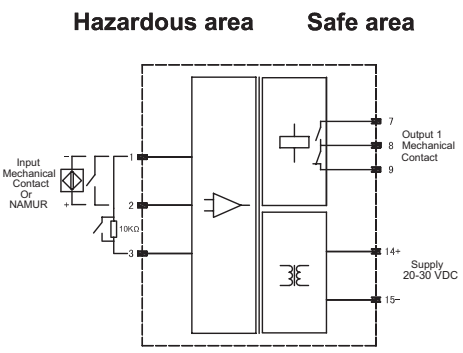
Transmit active/passive digital signals from hazardous area to non-hazardous area by safety barrier. It has wire breakage monitoring function. Double relay output, acting or reacting function is available.

- Amplifier of single/double channel isolating switch with detachable terminal block
- Intrinsic Safety Input loop EEx ia
- Applied area according to ATEX: II (1) GD, II3G
- Input and output loop completely isolated from power supply
- Single/double relay output

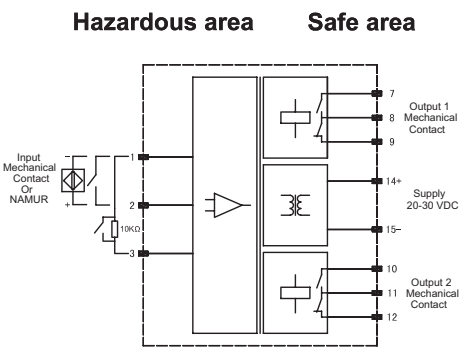
Main Technical Parameter:	ECXI-11	ECXI-111	ECXI-1D11
Explosion protection mark:	［EEx ia］ⅡC	［EEx ia］ⅡC	［EEx ia］ⅡC
Current cahnnel:	Single input-single outputs	Single input-double output	Double input-double output
Allowable input signal for hazardous area:	Mechanical switch or relay contact	Mechanical switch or relay contact	Mechanical switch or relay contact
Passive input signal:	Represents “On”, when input signal > 1.2mA	Represents “On”, when input signal > 1.2mA	Represents “On”, when input signal > 1.2mA
Active signal:	Represents “Off”, when input signal < 1.2mA	Represents “Off”, when input signal < 1.2mA	Represents “Off”, when input signal < 1.2mA
Supply voltage:	8V (Open voltage)	8V (Open voltage)	8V (Open voltage)
Short-circuit current:	Approximately 8mA	Approximately 8mA	Approximately 8mA
Output signal to safe area:			
Response time:	<50ms	<50ms	<50ms
Relay NC (NO) mode output, allowable (resistive) load:	AC125V 0.5A; DC24V 1A	AC125V 0.5A; DC24V 1A	AC125V 0.5A; DC24V 1A
Switching frequency:	≤5KHz	≤5KHz	≤5KHz
Current output:	≤40mA	≤40mA	≤40mA
Short-circuit current:	<100mA	<100mA	<100mA
Line failure detection (LFD):	Output is open when input current < 50uA(wire breakage) or > 6mA (Short-circuit).		
	Note: Switch sensor must be connected to resistor or assembly switch to be configured as no LFD		
	(function set to avoid LFD false triggering.		
Power consumption (at 24VDC power supply) :	0.5W	0.8W	0.8W
Connected site equipment and its respective area:	In accordance with DIN9234 site equipment, such as NAMUR proximity switch and switch etc.		
	(including intrinsic safe pressure switch, temperature switch and over-range switch etc.).		

Wiring diagram：

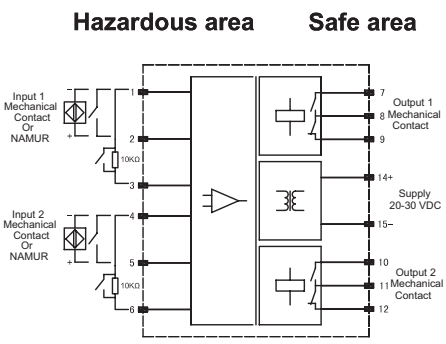
ECXI-11



ECXI-111



ECXI-1D11



Mechanical drawing：