

Isolating Switching Amplifier

ECXI-19/199/1D99



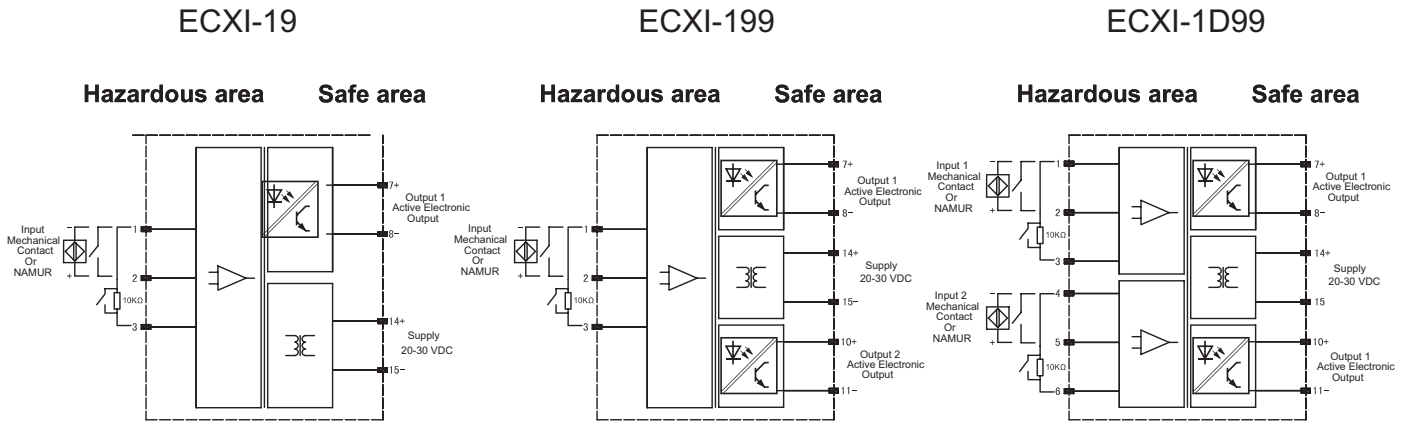
Transmit active/passive digital signals from hazardous area to non-hazardous area by safety barrier. It has wire breakage monitoring function. Double transistor output, acting or reacting function is available.

- Amplifier of two channel isolating switch with assembly and disassembly terminal
- Intrinsic safety output loop EEx ia
- Applied area according to ATEX: II (1) GD
- Input and output loop completely isolated from power supply
- Double transistor output, short-circuit and reverse polarity protection

Main Technical Parameter:	ECXI-19	ECXI-199	ECXI-1D99
Explosion protection mark:	[EEx ia] IIC	[EEx ia] IIC	[EEx ia] IIC
Current channel:	Single input-single outputs	Single input-double output	Single input-single output
Allowable input signal for hazardous area:			
Passive input signal:	Mechanical switch or relay contact	Mechanical switch or relay contact	Mechanical switch or relay contact
Active signal:	Represents "On", when input signal > 1.2mA Represents "Off", when input signal < 1.2mA	Represents "On", when input signal > 1.2mA Represents "Off", when input signal < 1.2mA	Represents "On", 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
Double circuit transistor output, passive:			
External passive power supply:	<40VDC	<40VDC	<40VDC
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.).		

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Wiring diagram:



Mechanical drawing :

