

Photoelectrics Amplifier Type SE 110

CARLO GAVAZZI



- Amplifier relay for through-beam photoelectric switches
- Fixed sensitivity
- Modulated light
- Make and break switching function
- LED output indication
- Rated operational voltage: 24 VDC, 24, 115 and 230 VAC
- Output: 10 A/250 V SPDT relay
- Plug-in module

Product Description

Amplifier relay for long-range photoelectric switch type ME. Carlo Gavazzi "S-System" plug-in housing. Fixed sensi-

tivity. Make and break switching function selectable with jumper. User-friendly operation.

Ordering Key

SE 110 024

Type

Power supply

Type Selection

Plug type	Function	Ordering no. Supply: 24 VDC	Ordering no. Supply: 24 VAC	Ordering no. Supply: 115 VAC	Ordering no. Supply: 230 VAC
Circular 11 pins	Amplifier relay, fixed sensitivity	SE 110 724	SE 110 024	SE 110 115	SE 110 230

Specifications

Rated operational volt. (U_B) pins 2 & 10		230 115 024 724	195 to 265 VAC,45 to 65 Hz 98 to 132 VAC, 45 to 65 Hz 20,4 to 27,6 VAC,45 to 65 Hz 20.4 to 27.6
Voltage Interruption		≤ 40 ms	
Rated operational power AC supply		2.5 VA	
Supply to photoelectric switch			
Emitter		Pins 6 & 7	
Supply voltage		Typ. 3.2 VDC	
Idle voltage		5 VDC	
Current		≤ 85 mA	
Short-circuit current		500 mA	
Receiver		Pins 5 & 6	
Supply voltage		12 VDC	
Current			
Light beam received		≥ 15 mA	
Light beam interrupted		1 to 4 mA	
Short-circuit current		≤ 75 mA	

Output Specifications		
Switching function		
Contact output current		
Continuous AC (I _a)		10 A/250 VAC ohmic load (2500 VA)
Continuous DC (I _a)		1 A/250 VDC ohmic load (250 W)
Contact life mechanical		30 x 10 ⁶ operations
Contact life electrical		2.5 x 10 ⁵ operations
Rated insulation voltage (U_i)		250 VAC (rms)
Dielectric voltage		≥ 2.0 kVAC (rms)
Sensitivity		Fixed
Operating frequency (f)		10 Hz
Response time		
OFF-ON (t _{ON})		50 ms
ON-OFF (t _{OFF})		50 ms
Output function		Make and break switching selectable with jumper between pin 8 & 9
Indication		
Output ON		LED, red
Environment		
Overvoltage category		III (IEC 60664)
Degree of protection		IP 20 (IEC 6+529, 60947-1)
Pollution degree		3 (IEC 60664/60664A, 60947-1)



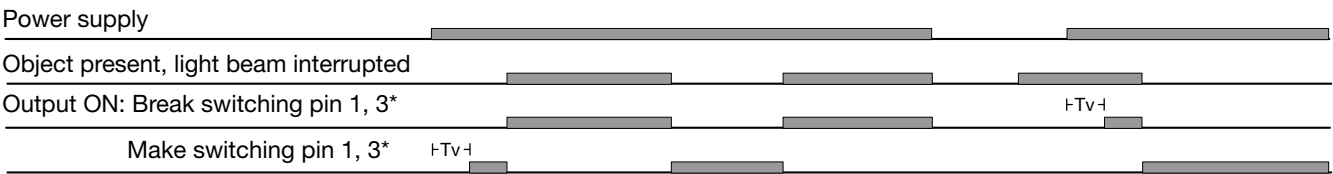
Specifications (cont.)

Temperature	
Operating	-20° to +50°C (-4° to +122°F)
Storage	-50° to +85°C (-58° to 185°F)
Weight	200 g
Approvals	UL, CSA
CE-marking	Yes

Truth Table

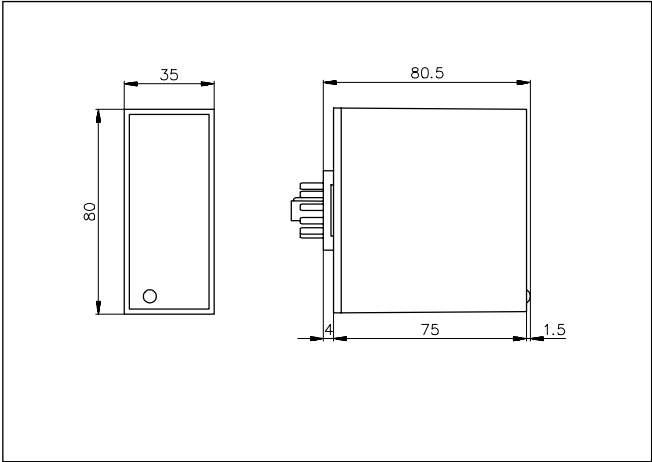
	Make switching		Break switching	
Object present	Yes	No	Yes	No
LED	OFF	ON	ON	OFF
Load Pins 1 & 3	Non-active	Active	Active	Non-active
Pins 8 & 9 jumpered	No		Yes	

Operation Diagram

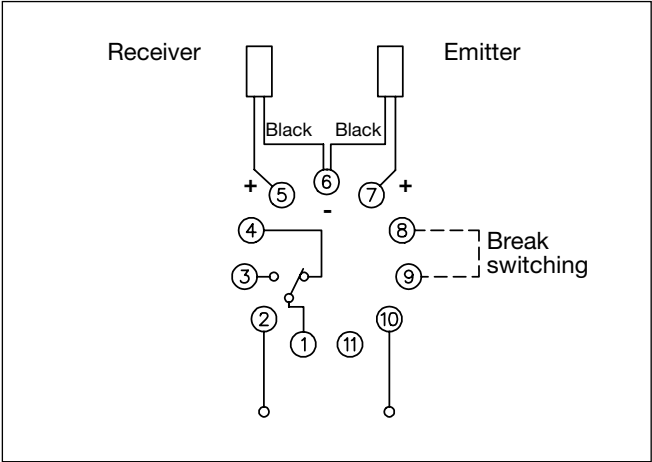


*) Switching function selectable; break switching if pins 8 & 9 are short circuited. Inverted function on pins 1 & 4.

Dimensions



Wiring Diagram



Accessories

- | | |
|------------------------------|--------------------------|
| - 11 pole circular socket | S111, S111A, S411, ZPD11 |
| - Socket cover for S111 | BB1 |
| - Socket cover for S411 | BB4 |
| - Holding down spring | HF |
| - Mounting rack | SM13 |
| - Front panel mounting bezel | FRS2 |

Delivery Contents

- Amplifier SE110...
- Installation instruction
- **Packaging:** styropor box