

Light Beam Devices Input Safety Relay

Features

PNP type light beam devices
Dual channel
Manual or automatic reset

CZSR8001-3A1B-P

CZSR8101-3A1B-N

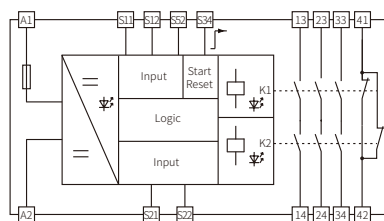
Power data		
Supply voltage	24V DC	24V DC
Voltage tolerance	0.85~1.1	0.85~1.1
Current consumption	≤90mA (24V DC)	≤90mA (24V DC)
Input data		
Input current	≤50mA (24V DC)	≤50mA (24V DC)
Cable resistance	≤15Ω	≤15Ω
Input devices	PNP type light beam devices	NPN type light beam devices
Output data		
Number of contacts	3NO+1NC	3NO+1NC
Contact material	AgSnO ₂ + 0.2 μm Au	AgSnO ₂ + 0.2 μm Au
External contact fuse protection	10A gL/gG NEOZED (NO) ; 6A gL/gG NEOZED (NC)	10A gL/gG NEOZED (NO); 6A gL/gG NEOZED (NC)
Mechanical endurance of contacts	10 ⁷ 次以上	10 ⁷ 次以上
Utilisation category	In accordance with EN60947-5-1: AC-15, 5A/230V; DC-13, 5A/24V	In accordance with EN60947-5-1: AC-15, 5A/230V; DC-13, 5A/24V
Time data		
Switch-on delay	≤300ms	≤300ms
Delay-on de-energisation	≤30ms	≤30ms
Recovery time	≤100ms	≤100ms
Supply short interruption	20ms	20ms
Environmental data		
EMC	EN60947, EN61000-6-2, EN61000-6-4	EN60947, EN61000-6-2, EN61000-6-4
Vibration	Vibration frequency: 10Hz~55Hz; Vibration amplitude: 0.35mm	Vibration frequency: 10Hz~55Hz; Vibration amplitude: 0.35mm
Ambient temperature	-20°C~+60°C	-20°C~+60°C
Storage temperature	-40°C~+85°C	-40°C~+85°C
Relative humidity	10%~90%	10%~90%
Elevation	≤2000m	≤2000m
Insulation data		
Overvoltage category	III	III
Pollution degree	2	2
Rated insulation voltage	250V AC	250V AC
Rated impulse voltage	6000V (1.2/50us)	6000V (1.2/50us)
Dielectric strength	1500V AC, 1min	1500V AC, 1min
Clearance and creepage distance	In accordance with EN 60947-1	In accordance with EN 60947-1
Certification		
Safety integrity level	SIL3	SIL3
Performance level	PLe	PLe
Category	Cat.4	Cat.4

Products show

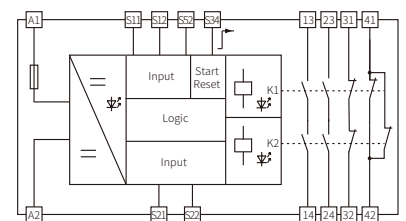
114.5mm×99.0mm×22.5mm



Block diagram



CZSR8001-3A1B-P



CZSR8101-3A1B-N

