OSE – C 2323 / OSE – C 2324

Technical data

General data		
Safety category	Cat. 3 according to DIN EN 954-1	
Protection Class	IP 65 (DIN VDE 0470)	
Housing material	Polycarbonate, grey RAL 7035, transparent cover	
Housing dimensions	Length: 94 mm, Width: 130 mm, Height: 60 mm (without PG-joints)	
Operation temperature	-20 °C to +55 °C	
Fitting position	Any alignment	
Supply voltage	OSE-C 2323	230 V AC ± 20 %
	OSE-C 2324	24 V DC ± 20 % or 24 V AC ± 20 %
Frequency range	48 Hz - 64 Hz	
Power consumption	max. 7 VA	
External fuse	0.2 A slow (not contained in appliance)	
Transient voltage suppression	III/4 kV according to DIN VDE 01110, part 1	
Soiling category	Cat. 2 according to DIN VDE 01110, part 1	
Cyclic duration factor	100 % CDF	
Weight	0.5 kg (OSE-C 2323) / 0.36 kg (OSE-C 2324)	
Response time	max. 16 ms	

Indication and terminal assignments	
LED “Power”	LED green – Readiness for working
LED “Halt”	LED yellow – Slack rope/extra passage switch chain closed
LED “Edge 1”	LED green – Opto-electronic safety edge at clamp 4 in regular condition and enabled
LED “Edge 2”	LED green – Opto-electronic safety edge at clamp 6 in regular condition and enabled
Input contacts	
1, 2, 3, 4, 5, 6	Transmitter / Receiver signal 1, Transmitter / Receiver signal 2, Slack rope switch / extra passage switch chain
A1, A2	Supply voltage
Output contacts	
13, 14	Release contact, safety switch
23, 24	Reverse contact
33, 34	Release contact OSE 1 / OSE 2 / 8k2 (safety contact)

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Relay data	Output 33/34	Output 13/14, 23/24
Contact material	Hard silver, AgCdO	Hard silver, AgCdO
Operating voltage max.	250 V AC/DC	250 V AC / 24 V DC
Limit of constant current	4 V	
Operating current max.	4 A	6 V
Switching capacity	1000 VA	8 A 24 V DC, 250 VA, AC15: 230 V / 2 A, DC13: 24 V / 3 A
Mechanical service life	30 x 10^6 switching capacity	20 x 10^6 switching capacity
Fuse	4 A slow (not contained in appliance)	6 A slow (not contained in appliance)
Protection class	Soiling category 2 according to DIN 0160, part 1 Transient voltage suppression III/4 kV according to DIN VDE 0160	

OSE

The brown and the white leads of OSE are connected in parallel to the terminals 1 - marked bn (brown) - and 2 – marked wh (white). The green leads of the edges are connected to terminal 4 = gn1, and terminal 6 = gn2 respetively. If only one edge is connected the terminals 5 and 6 have to be bridged.

Release contact (NCC)

The relay contact 33/34 is closed, when the safety edge is not actuated. In case of an error or an actuation, the contact opens. The release contact for the safety switches (13/14) behaves likewise.

Reverse contact

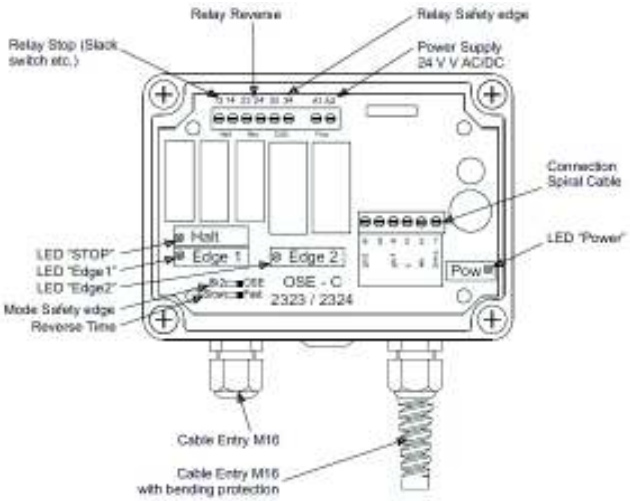
The signal created by the reverse contact is a delayed signal, which is generated 50 or 100 ms after the actuation (selectable by jumper setting) of the safety edge and lasts for 0.5 seconds.

The relay contact (23/24) is open, when the safety edge is not actuated. In case of an error or an actuation, the contact closes as described above. the release signal could be used to reverse the door and thus to release the obstacle.

Switches

Between contacts 1 and 3 safety switches can be connected (slack rope switches and extra passage switches. They got to be designed as release contacts (NCC). The condition of the switches is indicated at the contacts 13/14.

Drawing



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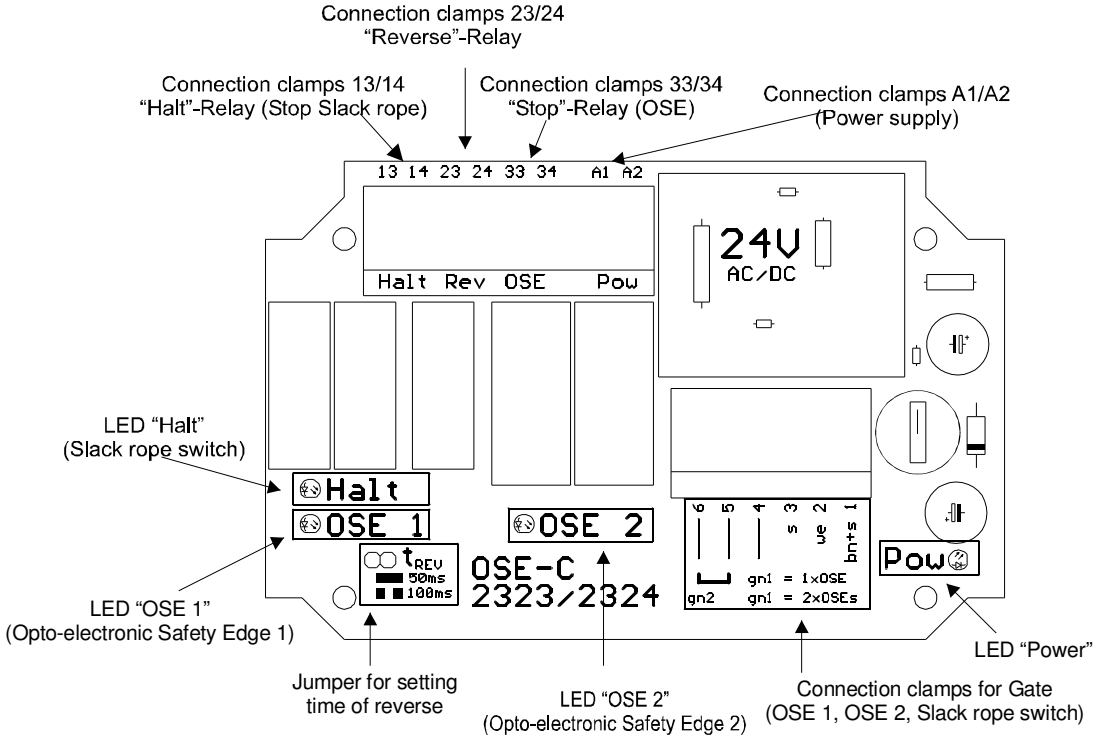
Connection diagram OSE-C 2323 / OSE-C 2324



Operating status, fault diagnosis, trouble-shooting OSE-C 2323 / OSE-C 2324

Indication	Operating status	Possible cause	Remedy
All LEDs on	OK		
Green LED (Power) out	Error	No voltage or wrong voltage; Control unit defective	Apply voltage; Check voltage
Green LED (Edge 1, Edge 2) out	Actuation or error	Light beam interrupted; Leads interrupted short circuit; Profile damaged Terminal assignment wrong; Control unit defective	Check whether light path unobstructed; Check leads; Test OSE without profile; Check terminal assignment
Green LED (Halt) out	Error	Safety switch open; Lead to the safety switches interrupted	Check the safety switches; Check leads