

UNIVERSAL INTERFACE

Types FPS 0270 (002045-050000)
FPS 0271 (002045-XXXXXX)

Publication Number DO020/0212



Operation

The universal interface is designed to allow the latest generation of light curtains to be interfaced with any elevator control system. The interface can be powered by either 115V or 230V AC depending on the position of the voltage selection switch.

Two sets of change-over relay contacts are provided to connect the output of the interface unit to the elevator control.

To provide a fail safe response to power failure, the relay is normally in the energized state, and will drop out when any of the light beams are interrupted.

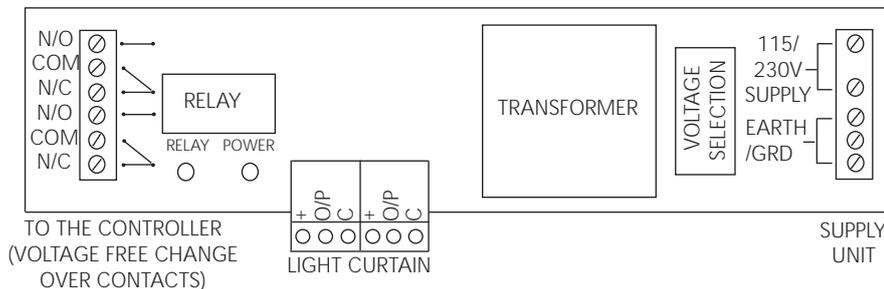
The 'N/O' (normally open), and 'N/C' (normally closed) terminal markings on the printed circuit indicate the contact state when energized.

Overload Protection

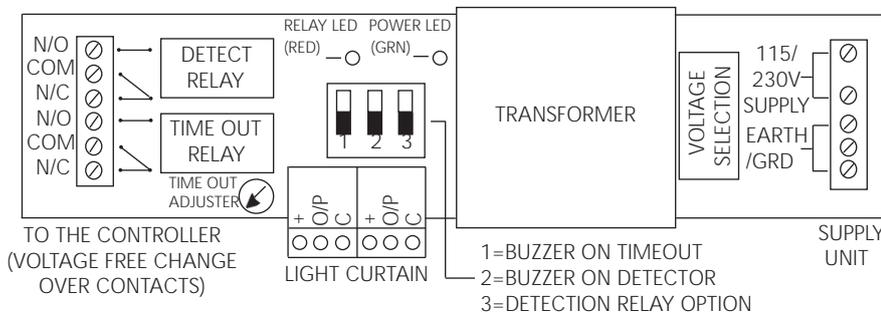
The output of the universal interface is protected against short circuits by a Polyswitch current sensor. This will isolate the output under fault conditions.

NOTE: Once tripped the system can be reset by switching the AC supply off for approximately ten seconds.

FPS 0270 UNIT



FPS 0271 UNIT



Detect Relay Option - FPS 0271

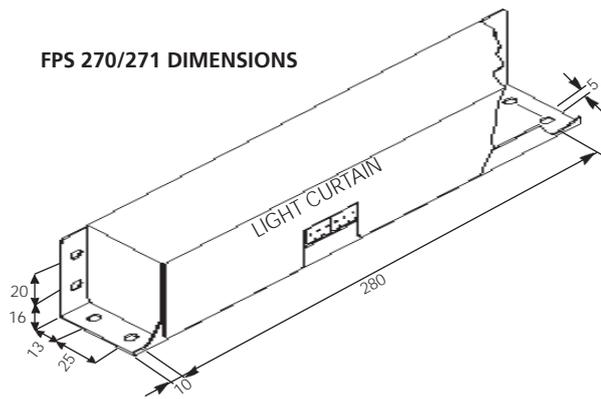
The Detection Relay can be configured to function in two ways selectable by Switch 3, these are:

Switch 3 'off', Detection Relay remains in detection after time out.

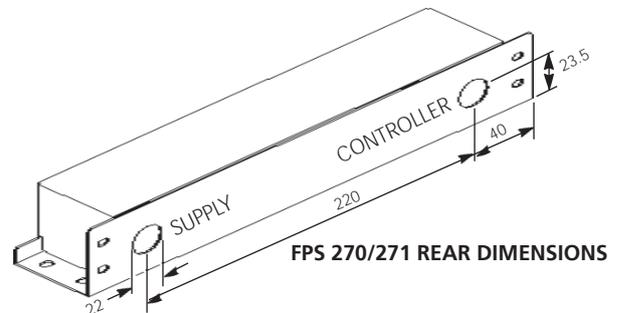
Switch 3 'on', Detection Relay returns to non-detect during time out period.

UNIVERSAL INTERFACE SPECIFICATION

Item	Detail	Additional Comments
Supply Voltage	230 or 115V AC (50Hz or 60Hz)	Switch selected (SW1)
Signal Output	Volt free change-over relay contacts	Contacts rated / set, 240V AC 4A RES.
Fail Safe Conditions	Faulty cable or supply failure	
Compatibility	FCU 0500 & 0700 Series, FZU 1000 Series	
Enclosure	Coated Steel	
Operating Temperature Range	0°C to +70°C	
Storage Temperature Range	-40°C to +80°C	
Unit Size	2" x 2" x 12" (54 x 54 x 300mm)	Nominal Dimensions
Mounting	Four screw positions	See drawing below
Indicators	Supply present: System fault/beams obstructed:	Green LED Red LED
System Approvals	UL, cUL, CE (EMC)	EN12015, EN12016
FPS 0270 specific:		
Power Consumption	3.5VA (Typical)	
FPS 0271 specific:		
Power Consumption	4.0VA (Typical)	
Function Switch (SW2):		
Position 1	Buzzer on time-out	Enabled when switched to 'ON' Enabled when switched to 'ON' See Detect Relay Option overleaf
Position 2	Buzzer on detection	
Position 3	Detection relay options	



Nominal dimensions shown in mm



EMC Note

These components are designed to comply with EN81 parts 1 and 2 for incorporation in a lift application. They meet the requirements of the EMC Regulations (EN12015 and EN12016). The installer must ensure that the inductive load connected to the relay contacts meets EMC requirements.