

MEMCO® Power Supply Unit



Product Datasheet



KEY FEATURES

- Provides a regulated 24V DC power supply
- Isolates light curtains from lift control circuitry and power systems
- Potential free relay output
- Robust housing
- 3 products within the range
 - 280 000
 - 281 000
 - 283 000
- Detector wiring instructions on the inside of lid for all 280 series PSUs

MEMCO 280 series power supply units (PSU) and control devices offer regulated 24V DC power supply for selected MEMCO light curtains. A range of input voltages are available to suit different requirements. The light curtain semiconductor output is converted to a potential-free relay contact providing greater control flexibility.

The primary purpose of the PSU units is to isolate the Memco elevator light curtains from the lift control circuitry and power systems.

There are three key products within the range

1. 280 000 Power Supply Unit
 - AC Supply Type
 - 115/240V AC Mains input.
 - Regulated DC supply for the light curtains
 - N/O and or N/C relay output
2. 281 000 Power Supply Unit
 - DC Supply Type
 - 15/36V DC
 - Regulated DC supply for the light curtains
 - N/O and or N/C relay output
3. 283 000 Isolating Power Module
 - DC Supply Type
 - 18 to 30V DC input or 24V AC
 - Regulated DC supply for the light curtains
 - N/O and or N/C relay output

Detector Profiles

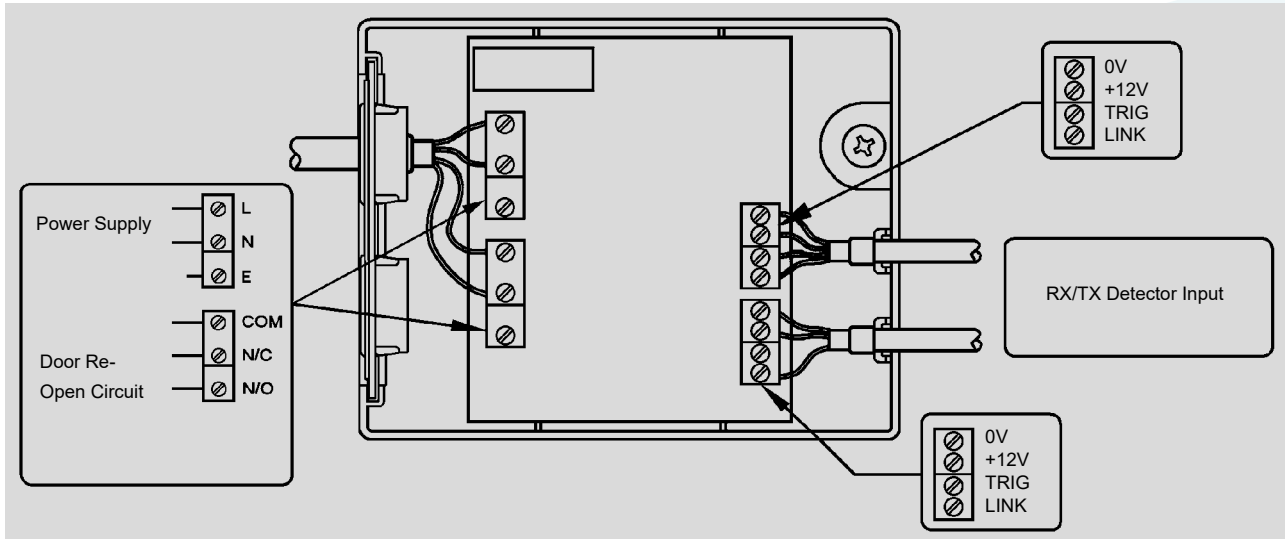


Fig 1: Wiring Diagram for MEMCO 280 Series Power Supply Unit

Technical Specification

Product Code	280 000	281 000	283 000
Input voltage	115-240V AC	24V DC nominal. An input range of 15V - 36V DC	24V DC nominal. An input range of 18V - 30V DC 24V AC (max) is acceptable
Output voltage	12VDC nominal		
Output current	120mA max (for use with MEMCO safety edges only)		
Compatibility Safety Edges	Elite Model, E, X and K Series		
Compatibility Safety Edges logic Outputs	PNP Normally Closed PNP Normally Open NPN Normally Closed NPN Normally Open		
Trigger Logic Settings	Two logic output switches (SW2 and SW3 to be set for detector configuration)		
Relay output	Single pole change-over with hard silver contacts Maximum switching current 5 amps at 240V AC		
Housing	High impact strength plastic box. 130mm x 100mm x 45mm		
Connections	Screw terminal blocks		
Audible Tone	Fitted with a beeper and beeper on/off switch		
Operating temperature range	-10 to +60°C to EN 60068-2-14:2009		
Storage temperature range	-25 to +60°C to EN 60068-2-1:2007 and EN 60068-2-2:2007		
Operating humidity range	+55°C @ 93%RH and +25°C @ 95%RH to EN 60068-2-30:2005		

Ordering Information

Part No.	Product Description
280 000	Power Supply Unit , 115/240V AC Mains input
281 000	Power Supply Unit , 15/36V DC

This product is designed for use in elevators with powered automatic doors where the closing energy is less than 10J in normal operation and less than 4J during de-activation of the light curtains or less as per EN81 requirements. It should be installed by qualified personnel only, therefore any use outside of this application is at the installer's own risk and should be assessed appropriately.

As a result of our policy of continual improvement, the information in this document is subject to change without notice and it is intended only as general guidance on product performance and suitability. This information shall not form part of any contract.