

Quick Start Guide, AlphaGateway BSC, Model AG300X-ACX

Manual Shutoff Switch Kit

This guide addresses the recommended installation and configuration of the Manual Shutoff Switch Kit (Alpha p/n 746-920-30-001) on an AlphaGateway BSC.

The AlphaGateway Manual Shutoff Switch enables shutoff of the AlphaGateway BSC output power via a rotary isolator switch. The switch is especially useful in situations where the power from the BSC to connected radios needs to be shut off to allow communication utility workers to work safely in the space.

The switch kit connects to the AlphaGateway BSC via a pre-terminated 14 AWG cable.

Kit Includes:

- 25 ft Cable
- Manual Shutoff Switch

Required Tools:

- Phillips Screwdriver
- Wire Cutters
- Wire Stripper

Switch Installation Procedure

NOTICE:

Connectors and glands for connecting the switch to the AlphaGateway BSC and radio are not included.

Alpha recommends the following procedure for connecting the cable from the AlphaGateway BSC to the manual shutoff switch:

NOTICE:

Connect the cable from the BSC to the switch before connecting other devices.

1. Remove the cover of the Manual Shutoff Switch and knockout an appropriate sized hole for cable gland specified by IMO.

Note: The knockout must be sealed after the cable is installed to prevent water ingress.
2. Route cable from the BSC through the cable gland and into the switch
3. Strip the end of the cable to reveal the internal wires and trim to desired length.
4. Alpha recommends terminating the wires as follows and torque to 18 in-lb (2 Nm):
 - Green to ground
 - Black to T1
 - White to T2

NOTICE:

The top terminals connect directly to the terminals below when the switch is engaged. (Ex: L1 connects to T1, L2 to T2, etc.)

5. Assemble the cover back on to the switch and secure in place via the top and bottom screws.
6. Manual Shutoff Switch is now ready for use.

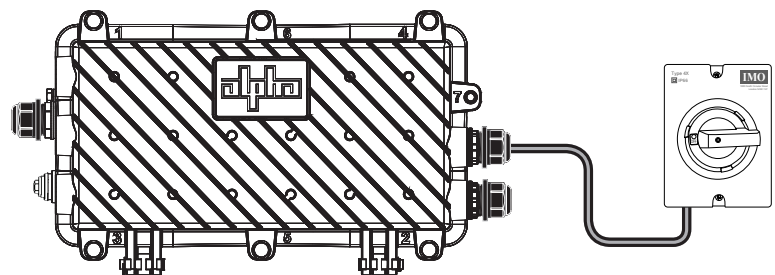


Fig. 1, AlphaGateway BSC Connected to Manual Shutoff Switch

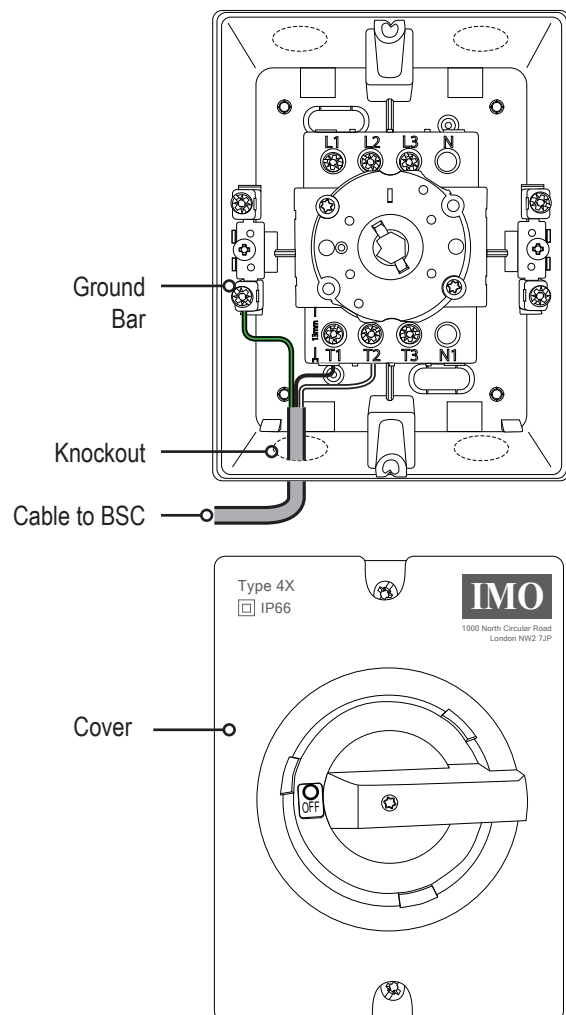


Fig. 2, Wiring the Manual Shutoff Switch

Switch and Cable Specifications

Switch Specifications	
Manufacturer	IMO
Poles	3
On Load	20A - 80A
Rated Insulation Voltage	690 Ui
Rated Thermal Current	20A
Rating @ 415V	20A
Making Capacity @ 415V	120Aeff
Breaking Capacity @ 415V	110Aeff
Mechanical Life (x10 ³)	100
Maximum Cable Size	10 mm ²
Weight (oz/g)	0.016 oz / 0.46 g
Dimensions (L x W x H) (in/mm)	3.86" x 3.03" x 5.12" / 98 x 77 x 130 mm
Certifications	
IP66 UL Listed and c(UL) Listed for indoor or outdoor use	

Cable Specifications	
Manufacturer	General Cable
Wire Gauge	14 AWG
Length (ft / m)	25 ft / 7.62 m
Nominal Outside Diameter	9.45 mm
Number of Conductors	3 (Line, Ground, Neutral)
Voltage Rating	300V
Conductor Strand	41/30
Temperature Range	-58°F to 221°F (-50°C to 105°C)
Certifications	
Fully RoHS Compliant UL Listed and c(UL) Listed for indoor or outdoor use	