

APTER POWER PRODUCT GUIDE

# 1756-L61S

## GuardLogix Primary Controller

Allen-Bradley 1756-L61S is a GuardLogix 5560 primary controller with separate standard and safety memory. Together with the adjacent 1756-LSP safety partner, it executes integrated standard and SIL 3/PLe safety control.

|                 |                               |
|-----------------|-------------------------------|
| Manufacturer    | Allen-Bradley                 |
| Model           | 1756-L61S                     |
| Product type    | GuardLogix Primary Controller |
| Product family  | GuardLogix 5560               |
| Country         | Sweden                        |
| HS code         | 8537101190                    |
| Shipping origin | Xiamen, Fujian, China         |

### APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

# 1. Installation and system fit

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- Back up the safety-locked project and record the safety signature.
- Reserve the slot immediately to the right for the matched 1756-LSP.
- Match firmware revisions between the primary controller and safety partner.
- Complete the prescribed safety validation after project download or hardware replacement.

## Controlled configuration

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|                |                               |
|----------------|-------------------------------|
| Complete model | 1756-L61S                     |
| Product type   | GuardLogix Primary Controller |
| System family  | GuardLogix 5560               |

## 2. Commissioning sequence

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- 1 Back up the safety-locked project and record the safety signature.
- 2 Reserve the slot immediately to the right for the matched 1756-LSP.
- 3 Match firmware revisions between the primary controller and safety partner.
- 4 Complete the prescribed safety validation after project download or hardware replacement.

### Technical verification note

Install 1756-L61S as the GuardLogix primary controller with a 1756-LSP in the immediately adjacent right-hand slot. Record the safety signature and complete application validation after any controller or partner change.

### 3. Application verification

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#### **1756-L61S safety-controller replacement**

Maintains the coordinated standard and safety task architecture

#### **Machine emergency-stop logic**

Creates the safety partnership across adjacent chassis slots

#### **Guarding and access-control functions**

Controls safety I/O through the validated GuardLogix project

#### **Safety I/O validation and proof testing**

Provides controller and safety-partner status for commissioning

#### **Associated system components**

- 1756-LSP safety partner
- 1756 ControlLogix chassis
- Guard I/O or safety I/O network
- validated GuardLogix application

## 4. Maintenance and verification FAQ

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### Can 1756-L61S run safety without a 1756-LSP?

No. The GuardLogix 5560 safety architecture requires the paired 1756-LSP safety partner.

### How should safety I/O be checked after fitting 1756-L61S?

Confirm ownership and connection status, then execute the approved proof test for every affected input, output and safety function.

### What diagnostics must be clear before placing 1756-L61S in Run?

Resolve primary-controller, safety-partner, safety-task, signature and safety-I/O faults before enabling operation.

### Can another GuardLogix controller replace 1756-L61S without revalidation?

No. Any catalog, firmware, project or safety-signature change requires the site-defined migration and validation process.

### Source record

Rockwell Automation GuardLogix 5560 Controllers User Manual 1756-UM020  
[https://literature.rockwellautomation.com/idc/groups/literature/documents/um/1756-um020\\_-en-p.pdf](https://literature.rockwellautomation.com/idc/groups/literature/documents/um/1756-um020_-en-p.pdf)

### ASK FOR QUOTE

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