

## Product Spotlight

# STP Electromechanical Locking Safety Gate Switch *Selection Guide*

Flexible design with many options provides easy integration and highest reliability for a variety of different applications, improving safety while saving time and money.

- Medium Duty - metal head with a reinforced thermoplastic body
- Locking force rating of up to 2,000N
- Ingress Protection rating IP67
- Operating voltage 24V AC/DC -15% to +10%
- Auxiliary Release on the front of the switch
- Minimum switching current 1mA at 24V
- Dual channel guard lock monitoring
- Single or Dual channel door monitoring options
- Actuator sold separately

Order Handle Separately 105329

Without Escape Release

With Escape Release

### Step 1 Determine Application Requirements

#### Which contact block variation will be required?

- **2131** – 1 NC Door Auxiliary Contact & 1 NO Solenoid Auxiliary Contact  
2 NC Guard Lock Monitoring Safety Contacts
- **4141** – 2 NC Door Monitoring Safety Contacts  
2 NC Guard Lock Monitoring Safety Contacts

#### What locking principle is required?

- Power To Unlock
- Power To Lock

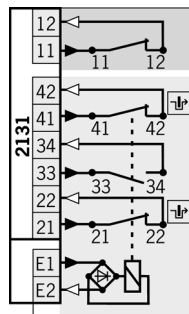
#### Will an escape release be required?

- Full body application – Escape Release is typically required
- Partial body application – Escape Release may not be required

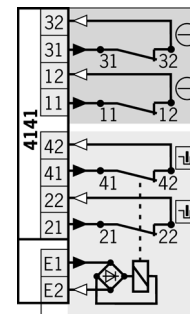
#### Select Accessories

- Improves Reliability
- Provides Additional Functionality

### Step 2 Determine Switch Part Number



2131 contact block is shown as Closed and Locked  
11/12 Door Closed  
33/34 Switch Unlocked  
21/22 and 41/42 guard lock monitoring safety contacts  
E1 = Solenoid 24V  
E2 = Solenoid 0V



4141 contact block is shown as Closed and Locked  
11/12 and 31/32 door monitoring safety contacts  
21/22 and 41/42 guard lock monitoring safety contacts  
E1 = Solenoid 24V  
E2 = Solenoid 0V

| Power To Unlock | Power To Lock | 2131 Contact Block | 4141 Contact Block | Escape Release Included | M20 x 1.5 Threaded Ports | Part Number<br>Technical Data Specifications<br>Wiring Diagrams<br>Accessories |
|-----------------|---------------|--------------------|--------------------|-------------------------|--------------------------|--|
| x               | -             | x                  | -                  | -                       | x                        | <b>091493</b>  |
| x               | -             | x                  | -                  | x                       | x                        | <b>102267</b>  |
| x               | -             | -                  | x                  | -                       | x                        | <b>099272</b>  |
| x               | -             | -                  | x                  | x                       | x                        |  |
| -               | x             | x                  | -                  | -                       | x                        | <b>091494</b>  |
| -               | x             | x                  | -                  | x                       | x                        |  |
| -               | x             | -                  | x                  | -                       | x                        | <b>099314</b>  |
| -               | x             | -                  | x                  | x                       | x                        | <b>115749</b>  |

### Step 3 Select Accessories

#### Safety Relays



ESM-BA201  
**085610**



ESM-BA301  
**085613**

#### Actuators



**095740**



**095738**



Hinged Actuators Available

#### Lockout Bar



**105701**

#### Cable Gland



**086233**

M12 Connectors Available

Click here if you need to integrate a Safety Relay or Safety Controller in your application

Scan the QR code



for more information

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