



- Features**
- PL<sub>d</sub> per EN ISO 13849-1, Control Category 3 to EN 954-1
  - 1 enabling circuit
  - Enable delay time can be modified
  - Monitoring of mechanical position switches, safety switches, solenoid interlocks, coded magnet sensors or E-stops
  - Can be used as emergency-stop controller for Category 0 to EN 60204-1
  - Monitoring for short-circuit between connections with NO-NC contact combination
  - Connection of input expansion modules possible

**Dimensions** 22.5 x 100 x 121 mm

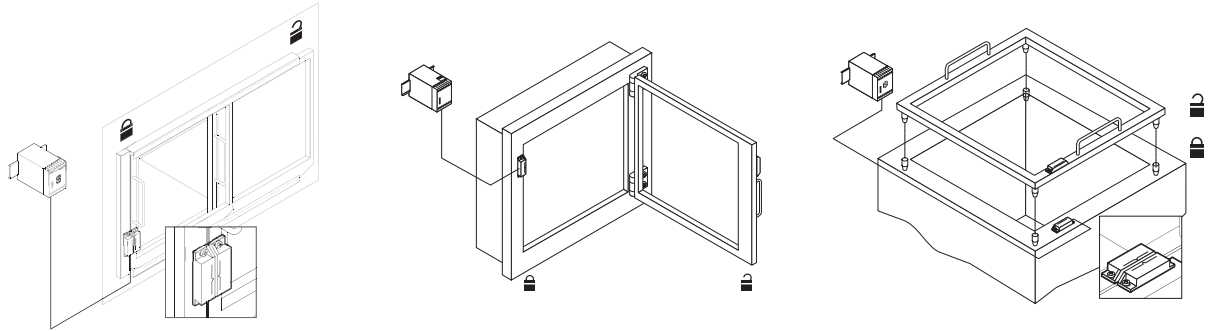
**Model Designation** AES 1135-24VDC  
AES 1165-24VDC

Function Table	Additional semi-conductor output Y	Function of output Y	Switching Condition
AES 1135	Y1 Y2	Enable No enable	Enable circuit closed Enable circuit open

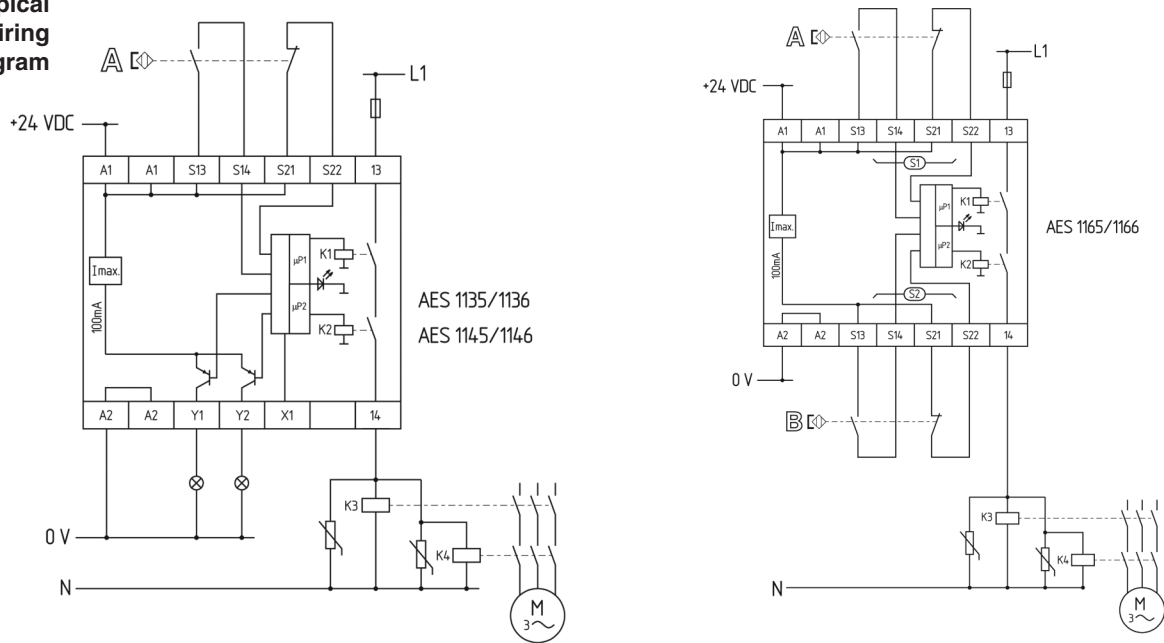
**Approvals** BG UL CSA

# AES 1135/AES 1165

## Typical Applications



## Typical Wiring Diagram



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- Application Notes**
- AES to achieve up to  $PL_d$  per EN ISO 13849-1, or Control Category 3 per EN 954-1.
  - Monitoring a sliding, hinged or removable guard device using a solenoid interlock.
  - The NC contact must have positive opening function when the guard device is opened.
  - The wiring diagram is with guard device closed and shows the de-energized condition.

- **Extension of Enable Delay Time**  
The enable delay time can be increased from 0.1 s to 1 s by changing the position of a jumper link connection under the cover of the unit.

- **Monitor 2 NC Contacts**  
Jumper A1 (24 VDC) to X1