Safety Wiring Diagrams

Category 2

Single Gate with Machine Control System Monitoring:

- 2 x 440K-C21070
- 2080LC1012QWB
- 100SC09EJ14BC

Feedback Circuit
Aux. Contact
Safety Wiring Diagrams

Category 2

Single Gate with Machine Control System Monitoring:

- **K1 100SC09EJ14BC**
- **CM0**
- **O-00**
- **11 12**
- **CM1**
- **O-01**
- **Switch 2 440K-C21070**
- **Switch 1 440K-C21070**
- **Micro810 2080LC1012QWB**
- **A1 100SC09EJ14BC**

Fault Indication
Safety Wiring Diagrams

Category 3

Dual Gates with Electro Mechanical Interlocks:

Dual Gates with Electro Mechanical Interlock and Coded Magnetic Reed Switch:
Safety Wiring Diagrams

Category 3

Dual Gates with Electro Mechanical Interlocks:

![Safety Wiring Diagram](image-url)
Door Monitoring with Guard Locking Safe Timer:

- 1 x 440RS12R2
- 2 x 100SC09EJ14BC
- 2 x 440REM4R2D
- 440G-T27134
Guard Locking with Safe Timer:

Maximum time delay of the EMD module is 5 minutes.
Safety Wiring Diagrams

Category 3

Door Monitoring with Guard Locking Standstill Monitoring:

- 2 x 872CD10NP30D4
- 2 x 100SC09EJ14BC
- 440K-T11089
- 1 x 440R-GL2S2P
- 1 x 440GT27134

AUX Contact
Coil
Contacts
Safety Wiring Diagrams

Category 3

Door Monitoring with Guard Locking Standstill Monitoring:

This output is connected to machine's standard start/stop circuit.

Switch 2
440K-T11089

Switch 1
440G-T27134

Proximity 1
872C-D10NP30-D4

Proximity 2
872C-D10NP30-D4

Reset & Gate Lock

Gate Unlock Request

Safety Wiring Diagrams

Category 3

Door Monitoring with Guard Locking Standstill Monitoring:

Switch 2
440K-T11089

Switch 1
440G-T27134

Proximity 1
872C-D10NP30-D4

Proximity 2
872C-D10NP30-D4

Reset & Gate Lock

Gate Unlock Request

This output is connected to machine's standard start/stop circuit.
Safety Wiring Diagrams

Category 4

Light Curtain with Muting:

1 x 445LP4S3400YD

1 x 42GRU9000QD

2 x 440RP226AGSNNR

2x 100SC09EJ14BC

Aux Contact

Aux Contact
Safety Wiring Diagrams

Category 4

Light Curtain with Muting:

Diagram showing the wiring connections for a light curtain with muting, including components such as transmitters, receivers, lamps, OSSD1, OSSD2, and muting sensors.
Safety Wiring Diagrams

Category 4

Single Gate with Diverse Redundant Interlocks:

1 x 440KMT55002
1 x 440NZ2NRS1C
2 x 100SC09EJ14BC
1 x 440RS12R2

Aux. Contact
Feedback Circuit
Aux. Contact

2 x 100SC09EJ14BC
Safety Wiring Diagrams

Category 4

Single Gate with Diverse Redundant Interlocks:
Safety Wiring Diagrams

Category 4

Expandable GSR:

Multiple Gates with Series Wired SensaGuards:
Global E-Stop and Zone Control:

- 1 x 800F1YM3
- 2 x 440NZ21SS2H
- 2 x 800F1YM3
- 1 x 440RS12R2
- 4 x 100SC09EJ14BC
Safety Wiring Diagrams

SensaGuard Units Wired in Series without Enunciation

1. T-Port: 898D438YD8
2. Shorting Plug: 898D418UDM
3. Patch Cords: 889DF4ACDM2 (2 m) 889DF4ACDM5 (5 m) 889DF4ACDM10 (10 m)
4. Cordset: 889DF4AC2 (2 m) 889DF4AC5 (5 m) 889DF4AC10 (10 m)
5. Safety Relay/PLC: Refer to “Safety Relays & Programmable Devices” section.
6. SensaGuard Device: Refer to Safety Interlocks, Mechanical and Non-act Section.
Safety Wiring Diagrams

SensaGuard Units Wired in Series with Enunciation

1. Distribution
   Box: 898DP84RTM19 (4 port)
   898DP88RTM19 (8 port)

2. Shorting
   Plugs: 898D81RUDM

3. Device
   Patchcords:
   - 889DF8ABDM1 (1 m)
   - 889DF8ABDM2 (2 m)
   - 889DF8ABDM5 (5 m)
   - 889DF8ABDM10 (10 m)

4. SensaGuard Device:
   Refer to “Safety Interlocks, Mechanical and Non-act” Section.

5. Safety Relay/PLC:
   Refer to “Safety Relays & Programmable Devices” section.

6. Home-run
   Cordset:
   - 889MR19RM2 (2 m)
   - 889MR19RM5 (5 m)
   - 889MR19RM10 (10 m)