SAFETY RELAYS

Motors

Automation

Energy

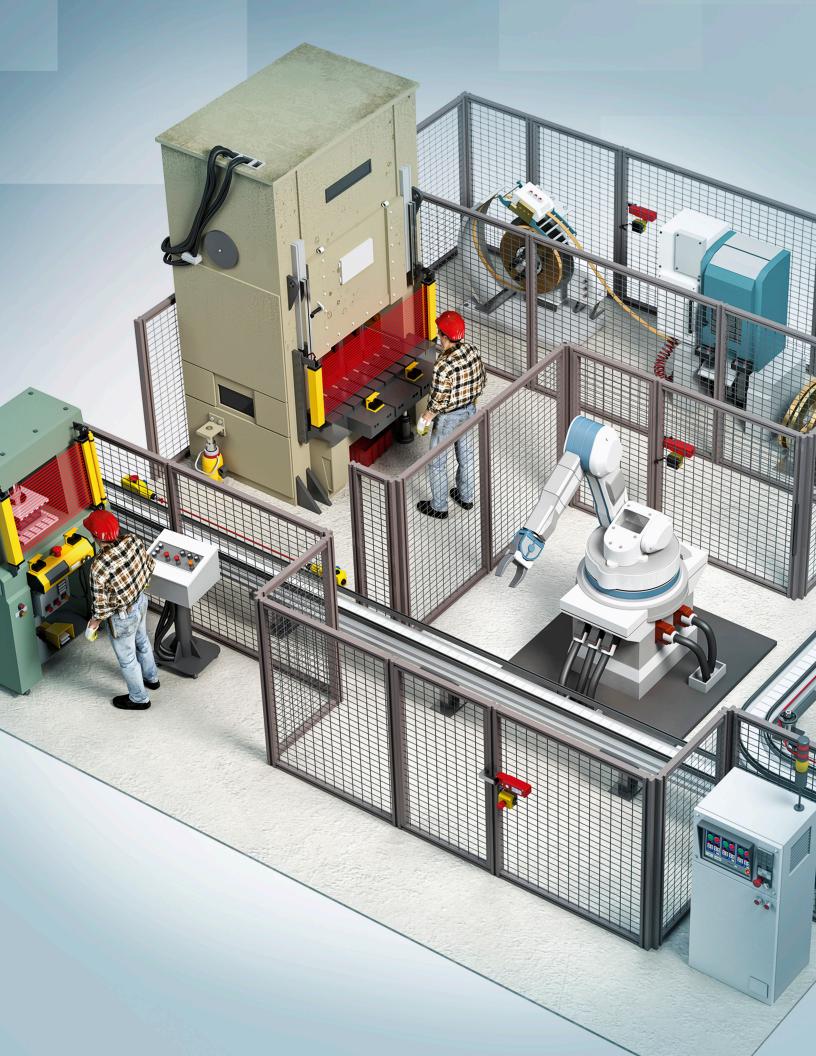
Transmission and Distribution

Coatings

Safety and reliability to improve your production process







Safety Solutions

Summary

Introduction	04
Overview	05
CP Line - Emergency Stop Control	
Product Features	06
Selection Table	07
Technical Data	08
Wiring Diagram	09
Dimensions	09
CS Line - Simultaneous Monitoring	
Product Features	10
Selection Table	11
Technical Data	12
Wiring Diagram	12
Dimensions	12



WEG SAFETY RELAYS FOR SAFE OPERATION

OF EQUIPMENT AND MACHINERY

Investing in machinery and equipment safety is essential to increase industry efficiency and productivity. You can rely on WEG Safety Line products to help with that process.

Developed to meet rigorous national and international safety regulations, safety relays provide both standalone and integrated solutions within safety systems. By minimizing accident risks and safeguarding both operators and machinery, they significantly enhance the reliability of your production processes.





Safety relays are devices that supervise circuits, ensuring the equipment/system and operator safety. They are designed to meet the latest safety standards, always aiming at reaching the maximum efficiency and reliability in a single product.

Main Characteristics

- TÜV Rheinland certification
- Dual channel outputs
- Contact supervision
- Protected against faults and tampering
- Lead-free products

CP Line - Emergency Stop Control

- Models: CP-D and CPA-D
- 24 V dc / V ac power supply
- 3 NO safety outputs
- 1 NC auxiliary output
- Dual channel inputs
- Cat 4 / PLe (ISO 13849-1), SIL CL 3 IEC 62061/IEC 61508



NEW

CS Line -Simultaneous Monitoring

- Model: CS-D201
- 24 V dc power supply
- 3 NO safety outputs
- 1 NC auxiliary output
- Dual channel inputs
- Cat 4 / PLe (ISO 13849-1), SIL CL 3 IEC 62061/IEC 61508



NEW



CP LINE - EMERGENCY STOP CONTROL RELAYS

Product Features

3 NO SAFETY OUTPUTS

0000

WEG CPF-C

POWER

RELAY 1

Mechanically linked contacts for safety, ensure disconnection of all connected equipment.

1 NC AUXILIARY OUTPUT

Auxiliary output, mechanically linked to safety outputs.

24 V dc / V ac POWER SUPPLY

Low voltage power supply for reduced electrical risk for both operator and equipment.

DUAL CHANNEL

Redundant or duplicate control circuits to ensure machine shut-down if one component fails.

SHORT CIRCUIT DETECTION

Cross-circuit detection between the dual channels to detect a short-circuit.

LED STATUS INDICATION

LED lights for quick and easy status check of safety relay.

FEEDBACK CIRCUIT

Checks and monitors the position of the actuators to ensure the contacts are in the proper position before restarting of the operation.

CP Line – Emergency Stop Control

Standard Features

- 24 V dc / V ac power supply
- Supervises contacts of different safety equipment types
- 3 NO safety outputs
- 1 NC auxiliary output
- Dual channel
- Short-circuit detection
- Feedback circuit
- Broken wire detection, Cat 4 / PLe (ISO 13849-1), SIL CL 3 IEC 62061 / IEC 61508







CPA-D

Supply voltage	Safety contacts	Auxiliary contact	Width (mm)	Reset	Catalog Number	Material Number	Multiplier
24 V do / V oo	24 V dc / V ac 3 NO 1 NC 22.5	Manual	CP-D	12381113	77		
24 v uc / v ac		TNC	22.5	Automatic	CPA-D	12381149	Z7





Technical Data

CP Line - Emergency Stop Control

The CP safety relays can be used to monitor the contacts of emergency pushbuttons, safety sensors, interlock switches and other vital safety devices.

They are protected against faults and tampering (auto check), and have contact monitoring, dual channel and power supply to provide flexibility in a variety of applications.



Specifications

2222 2222	CP-D	Manual start	Power supply
)	CPA-D	Automatic start	Power supply

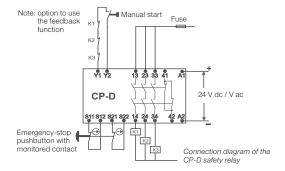
Note: 1) UL certification as a control relay.

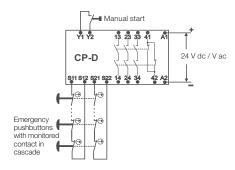




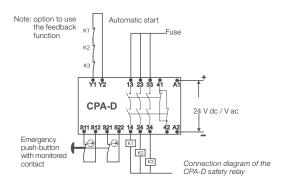
Wiring Diagrams

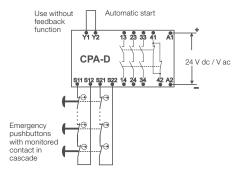
Manual Start



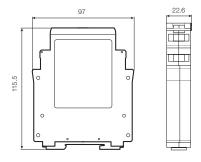


Automatic Start





Dimensions



Note: dimensions in mm.



CS Line - SIMULTANEITY MONITORING RELAY

Product Features



Auxiliary output, mechanically linked to safety outputs.

POWER

RELAY

RELAY 2

2000

DUAL CHANNEL

Redundant or duplicate control circuits to ensure that both inputs are closed before energizing circuit.

FEEDBACK CIRCUIT

Checks and monitors the position of the actuators to ensure the contacts are in the proper position before restarting of the operation.

SHORT CIRCUIT DETECTION

Cross-circuit detection between the dual channels to detect a short-circuit.

24 V dc / V ac POWER SUPPLY

Low voltage power supply for reduced electrical risk for both operator and equipment.

LED STATUS INDICATION

LED lights for quick and easy status check of safety relay.

2 NO SAFETY OUTPUTS

Mechanically linked contacts for safety, ensure activation of all connected equipment.



Product Selection

CS Line – Simultaneity Monitoring

Standard Features

- 24 V dc / V ac power supply
- Supervises contacts of different safety equipment types
- 2 NO safety outputs
- 1 NC auxiliary output
- Dual channel
- Short circuit detection
- Feedback circuit
- · Broken wire detection
- Cat 4 / PLe (ISO 13849-1), SIL CL 3 IEC 62061 / IEC 61508



CS-D201

Supply voltage	Safety contacts	Width (mm)	Catalog Number	Material Number	Multiplier
24 Vdc	2 NO + 1 NC	22.5	CS-D201	12424659	Z7





Technical Data

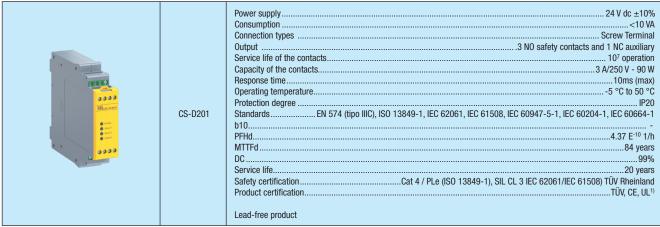
CS Line - Simultaneous Monitoring

Safety relays that monitor the simultaneous activation in the control of machines and processes; in addition, they provide safety for the control of machines preventing operators from putting their hands into the hazardous area, being commonly used in two-hand controls.

They are protected against faults and tampering (auto check), and have contact monitoring, dual channel and power supply to provide flexibility in a variety of applications.

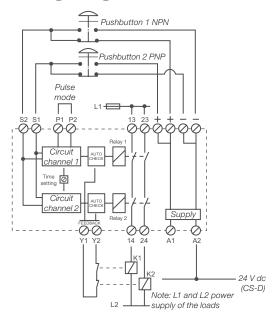


Specifications

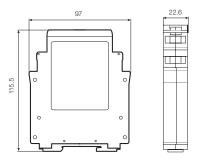


Note: 1) UL certification as a control relay.

Wiring Diagrams



Dimensions



Note: dimensions in mm.

Example of CS-D safety relay connection with Soft Switch and Palm Switch pushbuttons

Notes:



Global Presence

With more than 30.000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees our **Safety Solutions** are the right choice for your application and business, assuring safety, efficiency and reliability.



Availability is to have a global support network



Partnership is to create solutions that suit your needs



Competitive edge is to unite technology and innovation





Know More

High performance and reliable products to improve your production process.



WEG's scope of solutions is not limited to the products and solutions presented in this brochure.

Contact WEG for information on additional products and solutions.

For WEG's worldwide operations visit our website

www.weg.net





1-800-ASK-4WEG



info-us@weg.net



O Duluth, GA