

# Предохранительные устройства для IO-Link BP/BR

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# BP/BR SAFETY SWITCH WITH GUARD LOCKING



## Benefits for you

- Communicating safety switch with guard locking and safe guard lock monitoring
- Industry 4.0 ready
- Safety category 4 and PL e according to EN ISO 13849-1

## Industry 4.0 ready

Switches from system families BP and BR can communicate in combination with an EUCHNER IO-Link Gateway, and send process and device data to higher-level control systems. Comprehensive diagnostic messages enable rapid and targeted troubleshooting.



### 166702

CTA-L1-BP-U-HA-AP-SA-166702

Transponder-coded safety switch CTA-BP, M12

- Safety switch with guard locking and integrated evaluation electronics
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Closed-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With plug connector M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**165454**

CTA-L1-BP-U-HA-AP-SII-165454

Transponder-coded safety switch CTA-BP, 2 x M12

- Safety switch with guard locking and integrated evaluation electronics
- Direct connection to decentralized peripheral systems (e.g. ET200pro)
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Closed-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With 2 plug connectors M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**170930**

CTA-L1-BP-U-HA-AP-SII-170930

Transponder-coded safety switch CTA-BP, 2 x M12

- Safety switch with guard locking and integrated evaluation electronics
- Direct connection to decentralized peripheral systems (e.g. ET200pro)
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Closed-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With 2 plug connectors M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**166653**

CTA-L1-BR-U-HA-AP-SAB-166653

Transponder-coded safety switch CTA-BR, 2 x M12

- Safety switch with guard locking and integrated evaluation electronics
- Up to 20 switches in series
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Closed-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With plug connector 2 x M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**166257**

CTA-L1-BR-U-HA-AP-SH-166257

Transponder-coded safety switch CTA-BR, M23

- Safety switch with guard locking and integrated evaluation electronics
- Series connection possible
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Closed-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With plug connector M23
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)



**170659**

CTA-L2-BP-U-HA-AP-SA-170659

Transponder-coded safety switch CTA-BP, M12

- Safety switch with guard locking and integrated evaluation electronics
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Open-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With plug connector M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**166701**

CTA-L2-BR-U-HA-AP-SAB-166701

Transponder-coded safety switch CTA-BR, 2 x M12

- Safety switch with guard locking and integrated evaluation electronics
- Up to 20 switches in series
- Communication functions in combination with an IO-Link Gateway GWY-CB or ESM-CB
- Short circuit monitoring
- 2 safety outputs (semiconductor outputs)
- Open-circuit current principle
- Up to category 4 / PL e according to EN ISO 13849-1
- With 2 plug connectors M12
- Unicode
- Door monitoring output
- Approach directions A, B and C (delivery state)

**170491**

CTM-C2-BP-HC-FLX-AZ-SA-170491

Transponder-coded safety switch CTM-C2-BP, M12

- Guard locking suitable for process protection only
- Open-circuit current principle

- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- High coding level
- FlexFunction device



**170490**

CTM-CBI-BP-HC-FLX-AZ-SA-170490

Transponder-coded safety switch CTM-CBI-BP, M12

- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- High coding level
- FlexFunction device



**168250**

CTM-I2-BR-U-AZ-SA-168250

Transponder-coded safety switch CTM-I2-BR, M12

- Guard locking only suitable for process protection: The safety outputs are switched on when the door is closed.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode



**168251**

CTM-I2-BR-U-AZ-SA-168251

Transponder-coded safety switch CTM-I2-BR, M12

- Guard locking only suitable for process protection: The safety outputs are switched on when the door is closed.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode

**166870**

CTM-L2-BR-M-AZ-SA-166870

Transponder-coded safety switch CTM-L2-BR, M12

- Guard locking only suitable for process protection: The safety outputs are switched on when guard locking is active.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Auxiliary release
- Multicode

**167789**

CTM-L2-BR-M-ZZ-SA-P-167789

Transponder-coded safety switch CTM-L2-BR, M12

- Guard locking only suitable for process protection: The safety outputs are switched on when guard locking is active.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin

- Multicode
- Hygienic version



**173223**

CTM-L2-BR-M-ZZ-V15-P-173223

Transponder-coded safety switch CTM-L2-BR, connection cable, flying lead

- Guard locking only suitable for process protection: The safety outputs are switched on when guard locking is active.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Connection cable, connecting cable, 15m, flying lead
- Multicode
- Hygienic version



**168866**

CTM-L2-BR-U-AZ-SA-168866

Transponder-coded safety switch CTM-L2-BR, M12

- Guard locking only suitable for process protection: The safety outputs are switched on when guard locking is active.
- Series connection possible
- Open-circuit current principle
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode



**166088**

CTM-LBI-BP-M-AZ-SA-166088

Transponder-coded safety switch CTM-LBI-BP, M12

- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Multicode



#### **166090**

CTM-LBI-BP-M-AZ-SA-166090

Transponder-coded safety switch CTM-LBI-BP, M12

- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Multicode



#### **166087**

CTM-LBI-BP-U-AZ-SA-166087

Transponder-coded safety switch CTM-LBI-BP, M12

- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode



#### **166089**

CTM-LBI-BP-U-AZ-SA-166089

Transponder-coded safety switch CTM-LBI-BP, M12

- Bistable guard locking

- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode



### **165517**

CTM-LBI-BR-M-AZ-SA-165517

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Multicode



### **166588**

CTM-LBI-BR-M-AZ-SA-166588

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Auxiliary release
- Multicode



### **166092**

CTM-LBI-BR-M-AZ-SP-166092

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 12-pin
- Auxiliary release
- Multicode



**168651**

CTM-LBI-BR-M-ZZ-SA-P-168651

Transponder-coded safety switch CTM-LBI-BR, M12, hygienic version

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Multicode
- Hygienic version



**161638**

CTM-LBI-BR-U-AZ-SA-161638

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode



**161639**

CTM-LBI-BR-U-AZ-SA-161639

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode

**167795**

CTM-LBI-BR-U-AZ-SA-167795

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Auxiliary release
- Unicode

**166091**

CTM-LBI-BR-U-AZ-SP-166091

Transponder-coded safety switch CTM-LBI-BR, M12

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 12-pin
- Auxiliary release
- Unicode

**161496**

CTM-LBI-BR-U-ZZ-SA-P-161496

Transponder-coded safety switch CTM-LBI-BR, M12, hygienic version

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 35/30/15 N
- Plug connector M12, 8-pin
- Unicode
- Hygienic version

**161640**

CTM-LBI-BR-U-ZZ-SA-P-161640

Transponder-coded safety switch CTM-LBI-BR, M12, hygienic version

- Series connection possible
- Bistable guard locking
- Category 4 / PL e according to EN ISO 13849-1
- Actuation/extension/retention force: 20/18/5 N
- Plug connector M12, 8-pin
- Unicode
- Hygienic version

**172870**

CTS-C1-BP-CC-FLX-AP-USA-172870

Transponder-coded safety switch CTS-C1-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Closed-circuit current principle
- Connection cable, connecting cable, PUR, 25 cm, plug connector(s) M12, 8-pin
- Monitoring outputs guard locking and door position 1

**167917**

CTS-C1-BP-CC-FLX-AP-VSA-167917

Transponder-coded safety switch CTS-C1-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Closed-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs guard locking and door position 1

**169052**

CTS-C1-BP-CC-FLX-AP-VSA-169052

Transponder-coded safety switch CTS-C1-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Closed-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs door position 1 / guard locking and escape release

**171593**

CTS-C1-BP-CC-FLX-AP-VSA-171593

Transponder-coded safety switch CTS-C1-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Closed-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs guard locking and door position 2



**173374**

CTS-C1-BR-CC-FLX-AP-UAB-173374

Transponder-coded safety switch CTS-C1-BR with FlexFunction, 2 x M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Up to 20 switches in series
- Closed-circuit current principle
- Connection cable, connecting cable, PUR, 25 cm, plug connector(s) 2 x M12
- Monitoring outputs door position 1 / guard locking

**169053**

CTS-C1-BR-CC-FLX-AP-V05-169053

Transponder-coded safety switch CTS-C1-BR with FlexFunction, connecting cable with flying lead

- Up to category 4 / PL e according to EN ISO 13849-1
- Up to 20 switches in series
- Closed-circuit current principle
- Connecting cable, PVC, 5 m, flying lead
- Monitoring outputs guard locking and door position 1

**169612**

CTS-C1-BR-CC-FLX-AP-VAB-169612

Transponder-coded safety switch CTS-C1-BR with FlexFunction, 2 x M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Up to 20 switches in series
- Closed-circuit current principle
- Connecting cable, PVC, 25 cm, plug connector 2 x M12
- Monitoring outputs door position 1 / guard locking

**174014**

CTS-C1-BR-CC-FLX-AP-VSA-174014

Transponder coded safety switch CTS-C1-BR with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Series connection possible
- Closed-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs guard locking / door position 1



**174157**

CTS-C2-BP-CC-FLX-AP-USA-174157

Transponder-coded safety switch CTS-C2-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Guard locking suitable for process protection only
- Open-circuit current principle
- Connection cable, connecting cable, PUR, 25 cm, plug connector(s) M12, 8-pin
- Monitoring outputs guard locking and door position 1



**169051**

CTS-C2-BP-CC-FLX-AP-VSA-169051

Transponder-coded safety switch CTS-C2-BP with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Guard locking suitable for process protection only
- Open-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs guard locking and door position 1



**169613**

CTS-C2-BR-CC-FLX-AP-VAB-169613

Transponder-coded safety switch CTS-C2-BR with FlexFunction, 2 x M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Guard locking suitable for process protection only
- Up to 20 switches in series
- Open-circuit current principle

- Connecting cable, PVC, 25 cm, plug connector 2 x M12
- Monitoring outputs door position 1 / guard locking



### **174018**

CTS-C2-BR-CC-FLX-AP-VSA-174018

Transponder coded safety switch CTS-C2-BR with FlexFunction, M12

- Up to category 4 / PL e according to EN ISO 13849-1
- Guard locking suitable for process protection only
- Series connection possible
- Open-circuit current principle
- Connecting cable , PVC, 25 cm, plug connector M12, 8-pin
- Monitoring outputs guard locking / door position 1

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