

**TYPE APPROVAL CERTIFICATE****DNV·GL**

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **11 253 - 14 HH**

Company **PHOENIX CONTACT GmbH & Co. KG**

**Flachsmarktstraße 8  
32825 Blomberg, GERMANY**

Product Description **Coupling relay for safety-related switch on and safety-related switch off**

Type **PSR-PC50-1NO-1DO-24DC-SC/SP, PSR-MC30-2NO-1DO-24DC-SC/SP  
PSR-PC40-2NO-1DO-24DC-SC/SP, PSR-PC20-1NO-1NC-24DC-SC/SP,  
PSR-PC20-1NO-1DO-24DC-SC, PSR-PS21-1NO-1NC-24DC-SC,  
PSR-PS40-1NO-1DO-24DC-SC**

Environmental Category **C / EMC2**

Technical Data /  
Range of Application **PSR-PC50-1NO-1DO-24DC-SC/SP  
Coupling relay can be used for power adaptation and electrical isolation in  
Safe-State-ON applications  
- Contact type: 1 signaling current path  
- Nominal input voltage UN: 24 V DC  
- Maximum switching voltage NO Output: 250 V AC / 125 DC  
- Minimum switching voltage NO Output: 15 V AC/DC, 20 V AC/DC with  
diagnostics  
- Limiting continuous current (N/O contact, N/C contact): 6 A  
- Minimum / Maximum inrush current: 100mA / 5 A  
- 1 Alarm output (digital), 23 V DC, max. 100 mA  
- SC: with screw connection/SP: with spring-cage connection  
Derating curve is to be observed**

Test Standard **Guidelines for the Performance of Type Approvals, Chapter 2- Test  
Requirements for Electrical / Electronic Equipment and Systems (VI-7-2),  
Edition 2012**

Documents **Test report : U140831E2, S140831E1, E140831E2, E140831E3, E151615E1, 2nd  
version, U151615E1, 2nd version  
Drawings and Documents according to submitted file and Document list  
151615.**

Remarks **Products approved by this certificate are accepted for installation on all vessels  
classed by DNV GL.**

Valid until **2020-09-30**

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File No. **I.K.04**

**Hamburg, 2015-10-01**

Type Approval Symbol

**DNV GL**

  
Marco Rinkel

  
Heinz Scheffler

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## **PSR-MC30-2NO-1DO-24DC-SC/SP**

Safety relay for emergency stop and safety doors.

- Contact type: 2 enabling current path, 2x two contacts in series
  - Cross circuiting detection
  - 1 two channel sensor circuit
  - Nominal input voltage UN: 24 V DC
  - Maximum switching voltage NO Output: 250 V AC/DC
  - Minimum switching voltage NO Output: 20V AC/DC
  - Limiting continuous current NO contact: 6 A
  - Minimum / Maximum inrush current NO contact: 3mA / 6 A
  - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
  - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

## **PSR-PC40-2NO-1DO-24DC-SC/SP**

Safety Coupling relay high- and low-demand applications

- Contact type: 2 enabling current path, 2x two contacts in series
  - Integrated DCS test pulse filter, Low inrush current
  - Nominal input voltage UN: 24 V DC
  - Maximum switching voltage NO Output: 250 V AC/DC
  - Minimum switching voltage NO Output: 20V AC/DC
  - Limiting continuous current NO contact: 6 A
  - Minimum / Maximum inrush current NO contact: 3mA / 6 A
  - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
  - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

## **PSR-PC20-1NO-1NC-24DC-SC/SP**

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path
  - Nominal input voltage UN: 24 V DC
  - Maximum switching voltage NO Output: 250 V AC/DC
  - Minimum switching voltage NO Output: 20V AC/DC
  - Limiting continuous current NO contact: 6 A
  - Minimum / Maximum inrush current NO contact: 3mA / 6 A
  - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
  - Contact type: 1 confirmation current path (NC-Contact)
  - Minimum switching voltage NC-Contact: 20V DC
  - Maximum switching voltage NC-Contact: 26,4V DC
  - Limiting continuous current NC-Contact: 100mA
  - Minimum/Maximum inrush current NC-Contact: 1mA/100mA
  - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

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## PSR-PS20-1NO-1NC-24DC-SC

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, two NO contacts in series
- 1 undelayed confirmation current path
- Nominal input voltage UN: 24 V DC
- 1 digital signal output 24V/100mA
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- Active error acknowledgment via A1
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- Contact type: 1 confirmation current path (NC-Contact)
- Minimum switching voltage NC-Contact: 20V DC
- Maximum switching voltage NC-Contact: 26,4V DC
- Limiting continuous current NC-Contact: 100mA
- Minimum/Maximum inrush current NC-Contact: 1mA/100mA
- SC: with screw connection

Derating curve is to be observed

## PSR-PS21-1NO-1NC-24DC-SC

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, one NO contact
- 1 undelayed confirmation current path
- Nominal input voltage UN: 24 V DC
- 1 digital signal output 24V/100mA
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- Contact type: 1 confirmation current path (NC-Contact)
- Minimum switching voltage NC-Contact: 20V DC
- Maximum switching voltage NC-Contact: 26,4V DC
- Limiting continuous current NC-Contact: 100mA
- Minimum/Maximum inrush current NC-Contact: 1mA/100mA
- SP: with spring-cage connection

Derating curve is to be observed

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**PSR-PS40-1NO-1DO-24DC-SC**

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, two NO contacts in series
- Nominal input voltage UN: 24 V DC
- one digital signal output 24VDC/100mA
- DCS testpulse filter
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- SC: with screw connection

Derating curve is to be observed

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