

PKC Vehicle Electronics

2. Catalogue for Special Products

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Pulse Encoder

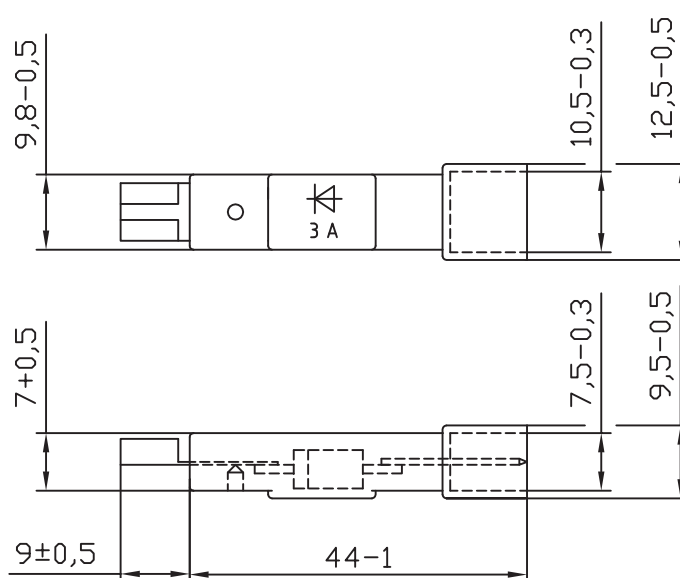
41 9 0149-001	Pulse Encoder 9 ... 33V
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Wipe-Wash-Interval-Relays

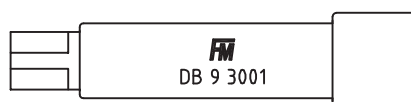
41 9 5000-001	12V Wipe-Wash-Interval-Relay
41 9 5001-001	24V Wipe-Wash-Interval-Relay
41 9 5002-001	12V Wipe-Wash-Interval-Relay
41 9 5003-001	24V Wipe-Wash-Interval-Relay
41 9 5004-001	24V Wipe-Wash-Interval-Relay

Specification Diode Module 3 A

41 9 3001 S



Dimensions in mm



Connection plan

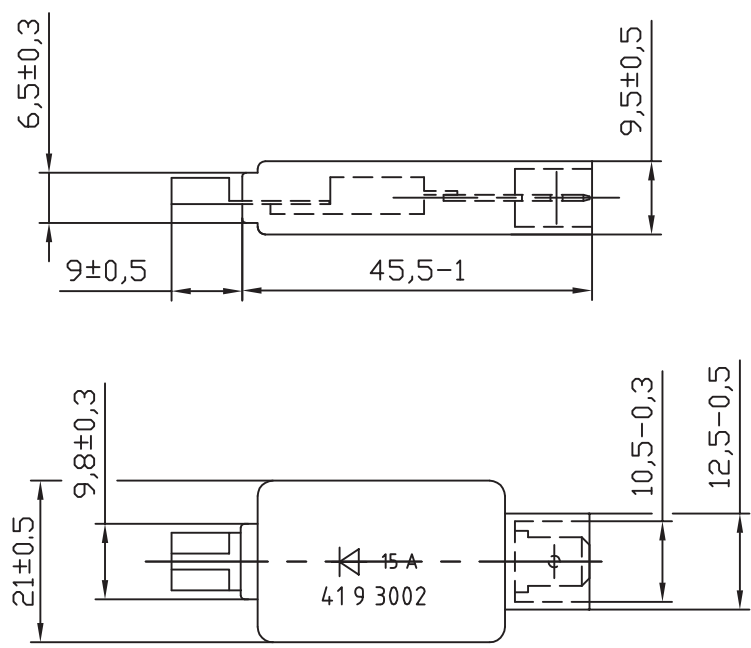


Order number: 41 9 3001

<u>Nominal voltage:</u>	50 V
<u>Diode-type:</u>	BY 255
<u>Transmitting power:</u>	3 A
<u>Peak Reverse Voltage:</u>	1200 V
<u>Compliance:</u>	Diode molded with terminals 6,3 x 0,8 resp. Socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Plastic housing: PA 66 GF35 Terminal: CuZn tinned Socket: CuZn tinned
<u>Operating temperature:</u>	-40°C...+120°C

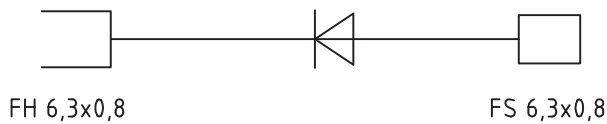
Specification
Diode Module
15 A

41 9 3002 S



Dimensions in mm

Connection plan



Order number: 41 9 3002

Nominal voltage: 35 V

Diode-type: MUR 6040 alternative BYT 60P-400

Transmitting power: 15 A short-term (1min)
10 A continuous current

Peak Reverse Current: 35 A (1s)

Peak Reverse Voltage: 400 V

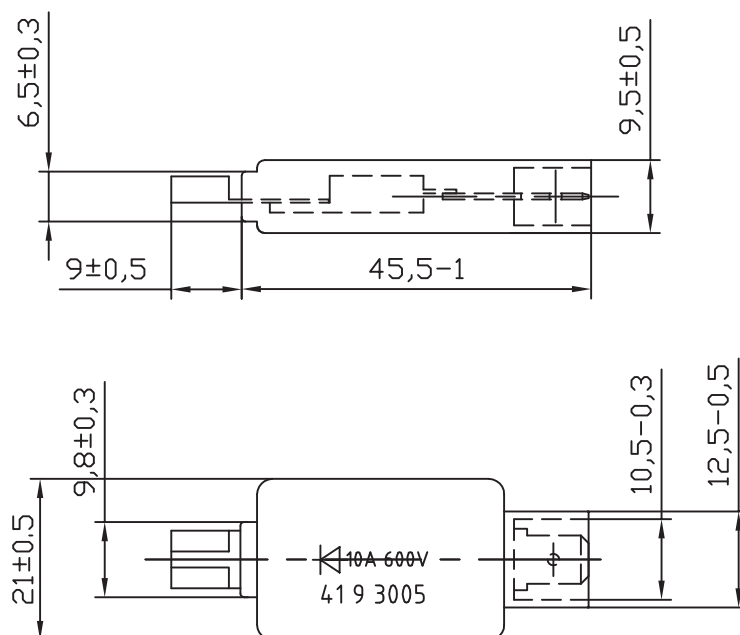
Compliance: Diode molded with terminals 6,3 x 0,8 resp.
Socket 6,3 x 0,8 according to DIN EN ISO 8092-1

Materials: Plastic housing: PA 66 GF35
Terminal: CuZn tinned
Socket: CuZn tinned

Operating temperature: -40°C...+85°C

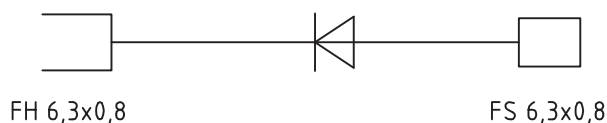
Specification Diode Module 10A 600V

41 9 3005 S



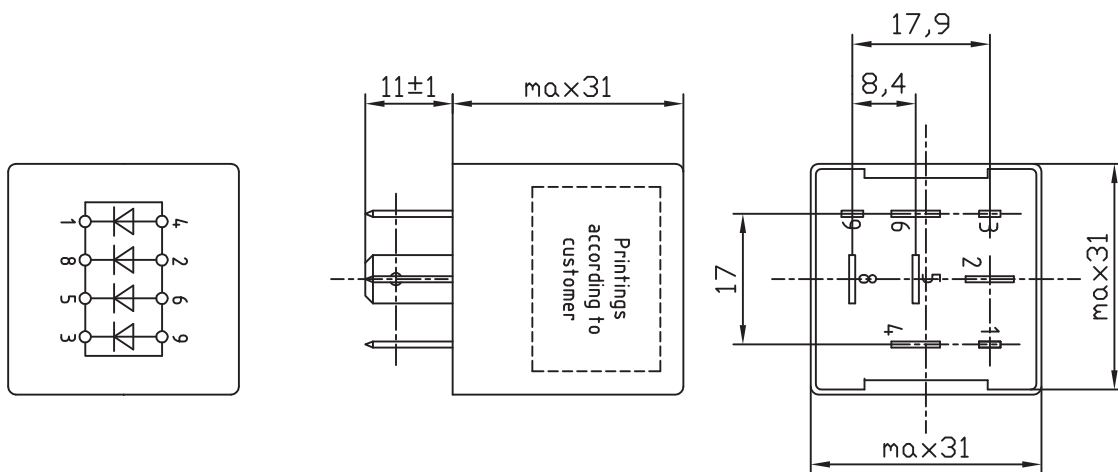
Dimensions in mm

Connection plan



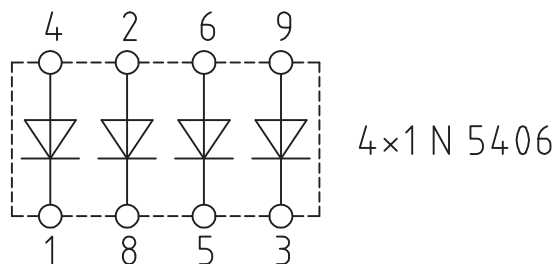
Order number: 41 9 3005

<u>Nominal voltage:</u>	12 V resp. 24V
<u>Diode-type:</u>	MUR3060BTG
<u>Transmitting power:</u>	8 A continuous current 10 A short-term (1min) 25 A short-term (1s)
<u>Peak Reverse Voltage:</u>	600 V
<u>Operation voltage:</u>	9V ... 35V
<u>Compliance:</u>	Diode molded with terminals 6,3 x 0,8 resp. Socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Plastic housing: PA 66 GF35 Terminal: CuZn tinned Socket: CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C



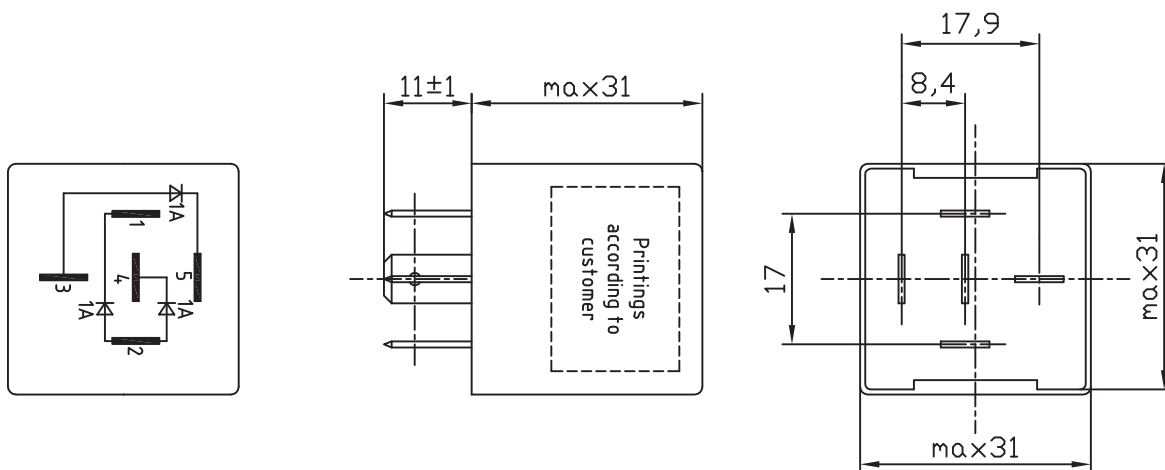
Dimensions in mm

Connection plan



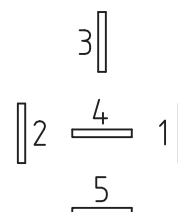
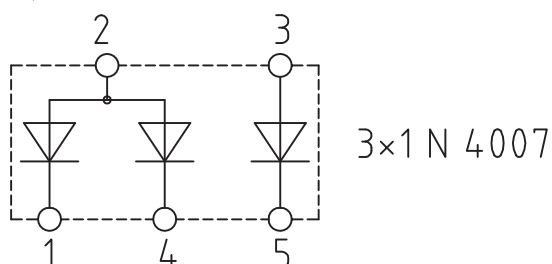
Order number: 41 9 3010

<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Combination with four diodes not connected among each other Anode and cathode of each diode accessible on pin 6,3 and 2.8
<u>Diode-type:</u>	1 N 5406
<u>Transmitting power:</u>	3 A (each diode) Total current through all diodes 3,5 A
<u>Peak Reverse Voltage:</u>	600V
<u>Compliance:</u>	Diode molded with terminals 6,3 x 0,8 resp. Socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 base Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



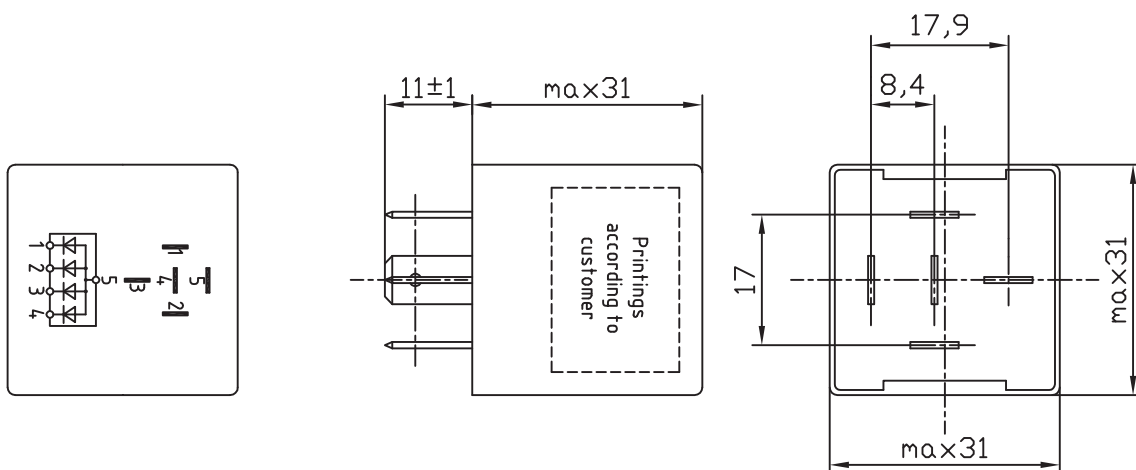
Dimensions in mm

Connection plan



Order number: 41 9 3011

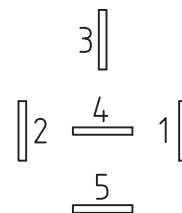
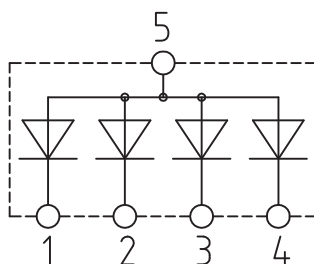
<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Diode combination with a diode having a anode and cathode via 6,3 Pin, as well as 2 diodes with a common anode also with a 6,3 Pin on anode and cathode
<u>Diode-type:</u>	1 N 4007
<u>Transmitting power:</u>	1 A
<u>Peak Reverse Voltage:</u>	1000V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 base Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



Dimensions in mm

Connection plan

Pin 1 = P 600 K
Pin 2 = 1 N 4007
Pin 3 = 1 N 5406
Pin 4 = 1 N 4007



Order number: 41 9 3012

Nominal voltage: 12/24 V AC/DC
Usage: Diode-combination with 4 diodes with a common anode.
Anode and cathode are connected with 6,3 Pins

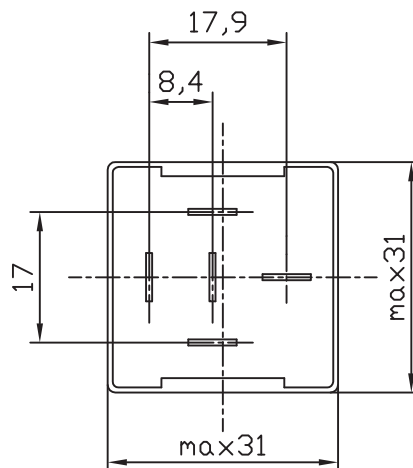
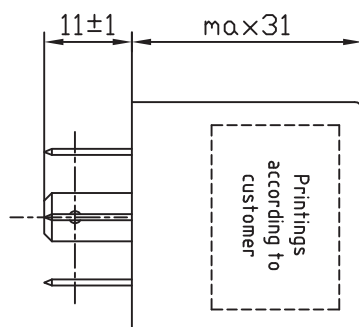
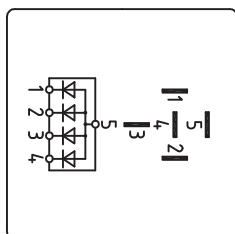
Diode-types:

Diode-type	P 600 K	1 N 5406	1 N 4007
Transmitting power	6 A	3 A	1 A
Peak Reverse Voltage	800 V	600 V	1000V

Compliance: Plastic housing with fixation bracket ISO 7588-2 C,
Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.

Materials: Housing PA 6 GF 30 black
Base-plate PA 6.6 GF 30 black
Terminals CuZn tinned

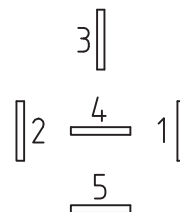
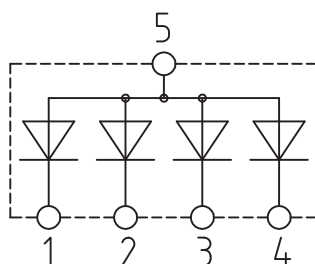
Operating temperature: -40°C...+85°C
Installation: Installation on any socket



Dimensions in mm

Connection plan

4 × 1 N 5406



Order number: 41 9 3013

Nominal voltage:

12/24 V AC/DC

Usage:

Diode-combination with 4 diodes with a common anode.
Anode and cathode are connected with 6,3 Pins

Diode-types:

1 N 5406

Transmitting power :

3 A

Peak Reverse Voltage:

600V

Compliance:

Plastic housing with fixation bracket ISO 7588-2 C,
Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.

Materials:

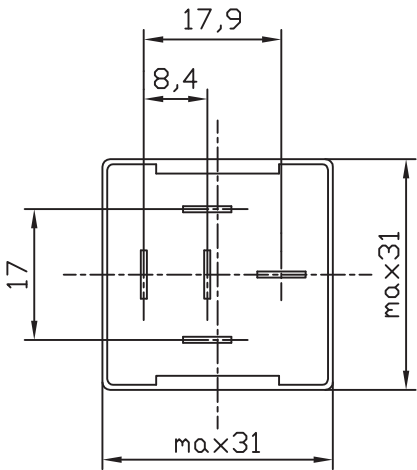
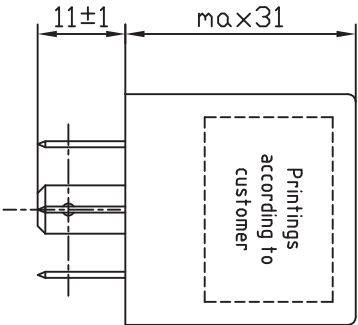
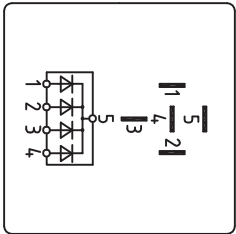
Housing PA 6 GF 30 black
Base-plate PA 6.6 GF 30 black
Terminals CuZn tinned

Operating temperature:

-40°C...+85°C

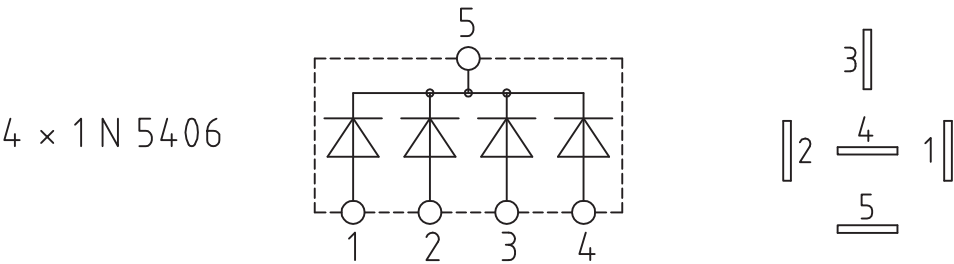
Installation:

Installation on any socket



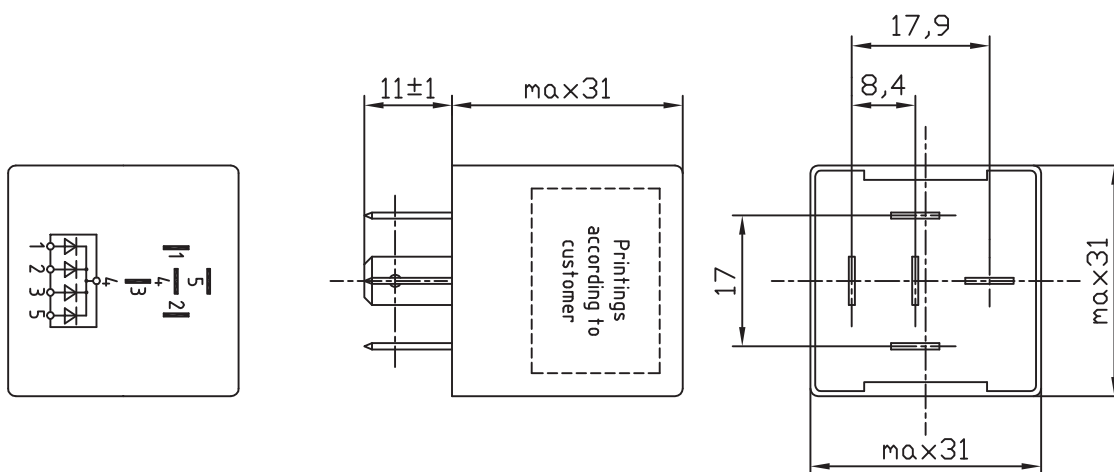
Dimensions in mm

Connection plan



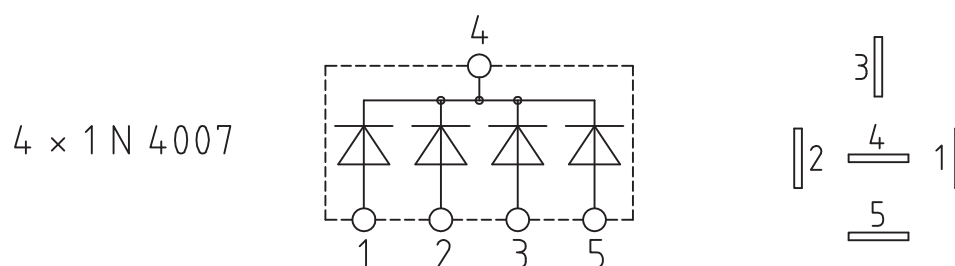
Order number: 41 9 3014

Nominal voltage:	12/24 V AC/DC
Usage:	Diode-combination with 4 diodes with a common cathode. Anode and cathode are connected with 6,3 Pins
Diode-types:	1 N 5406
Transmitting power:	3 A
Peak Reverse Voltage:	600V
Compliance:	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
Materials:	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
Operating temperature:	-40°C...+85°C
Installation:	Installation on any socket



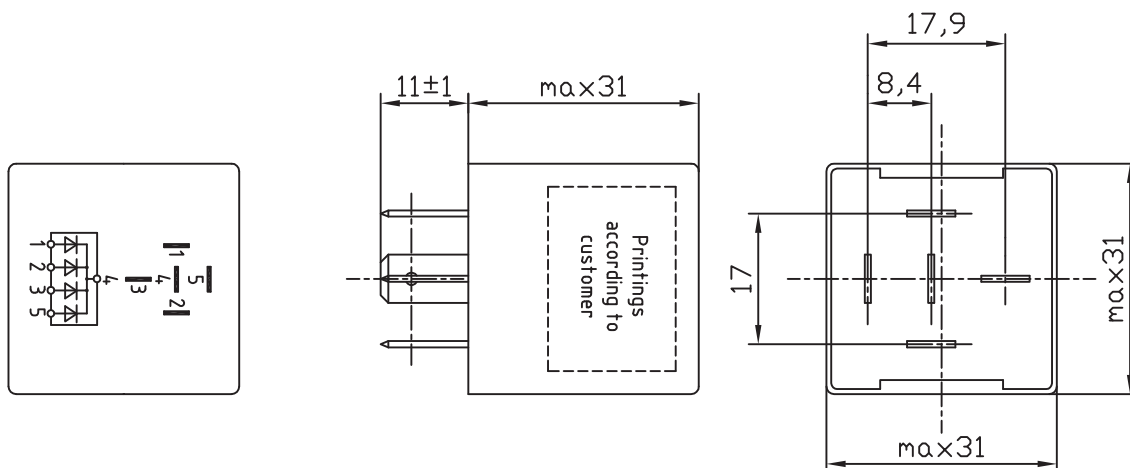
Dimensions in mm

Connection plan



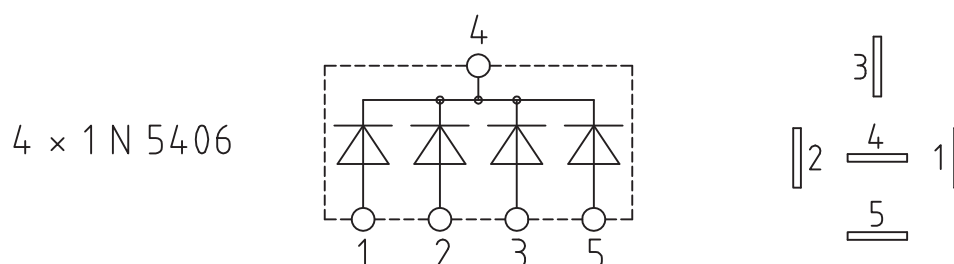
Order number: 41 9 3015

<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Diode-combination with 4 diodes with a common cathode. Anode and cathode are connected with 6,3 Pins
<u>Diode-types:</u>	1 N 4007
<u>Transmitting power:</u>	1 A
<u>Peak Reverse Voltage:</u>	1000V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



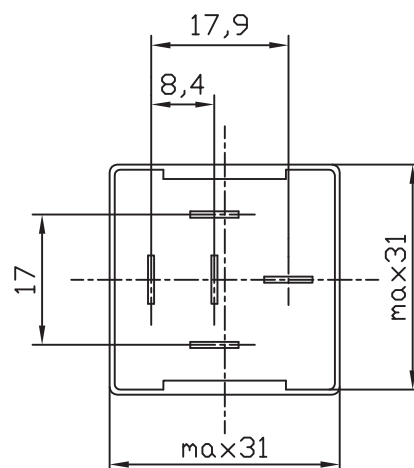
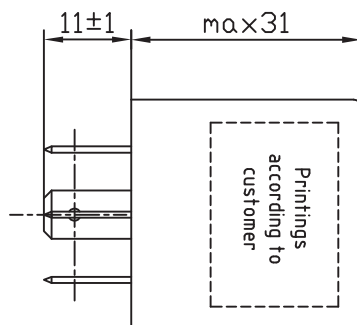
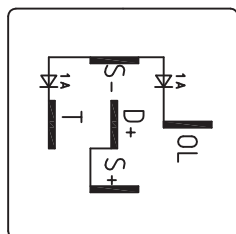
Dimensions in mm

Connection plan



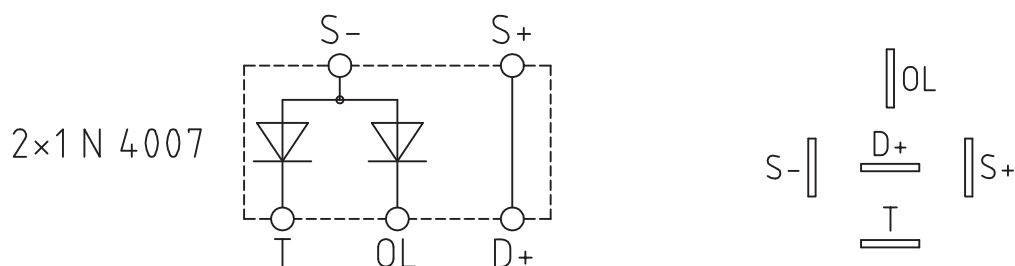
Order number: 41 9 3016

<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Diode-combination with 4 diodes with a common cathode. Anode and cathode are connected with 6,3 Pins
<u>Diode-types:</u>	1 N 5406
<u>Transmitting power:</u>	3 A
<u>Peak Reverse Voltage:</u>	600V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



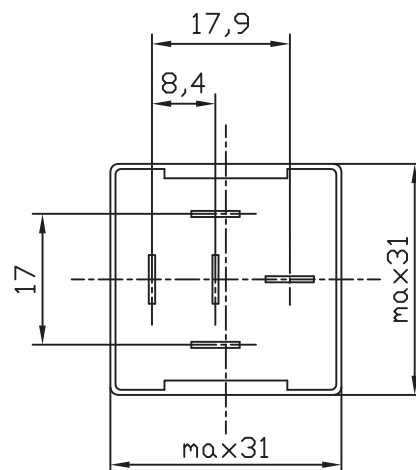
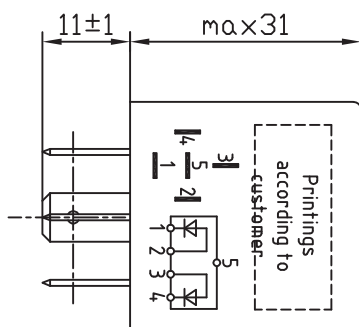
Dimensions in mm

Connection plan



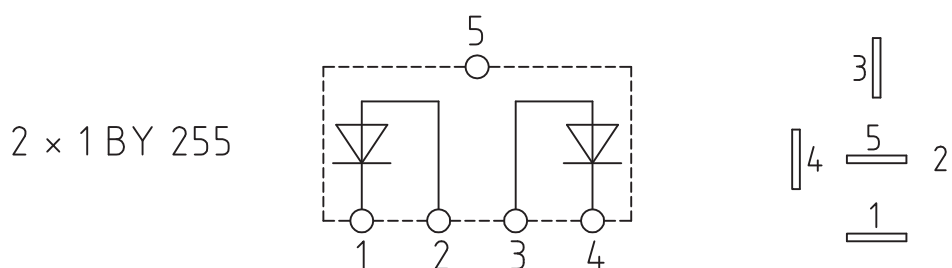
Order number: 41 9 3017

<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Diode-combination with 2 diodes with a common anode. Anode and cathode are connected with 6,3 Pins and a bridge between 2 terminals 6,3
<u>Diode-types:</u>	1 N 4007
<u>Transmitting power:</u>	1 A
<u>Peak Reverse Voltage:</u>	1000V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



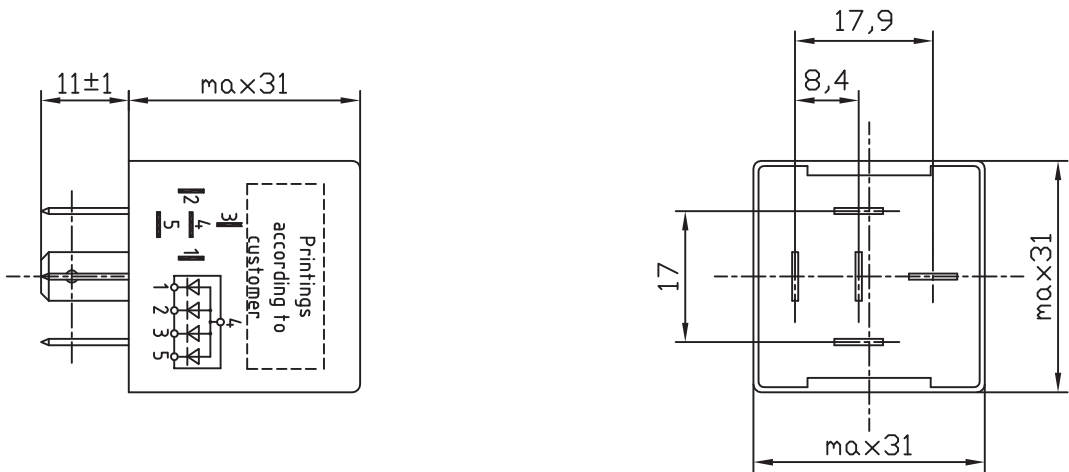
Dimensions in mm

Connection plan



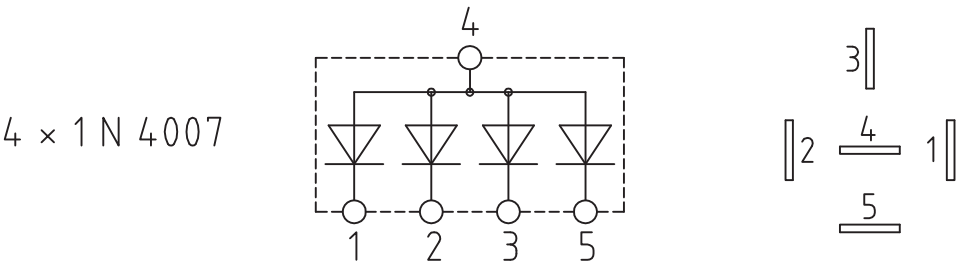
Order number: 41 9 3019

<u>Nominal voltage:</u>	12/24 V AC/DC
<u>Usage:</u>	Diode-combination witch are not connected. among each other Anode and cathode are connected with 6,3 Pins
<u>Diode-types:</u>	BY 255
<u>Transmitting power:</u>	3 A
<u>Peak Reverse Voltage:</u>	1200V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588- C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



Dimensions in mm

Connection plan

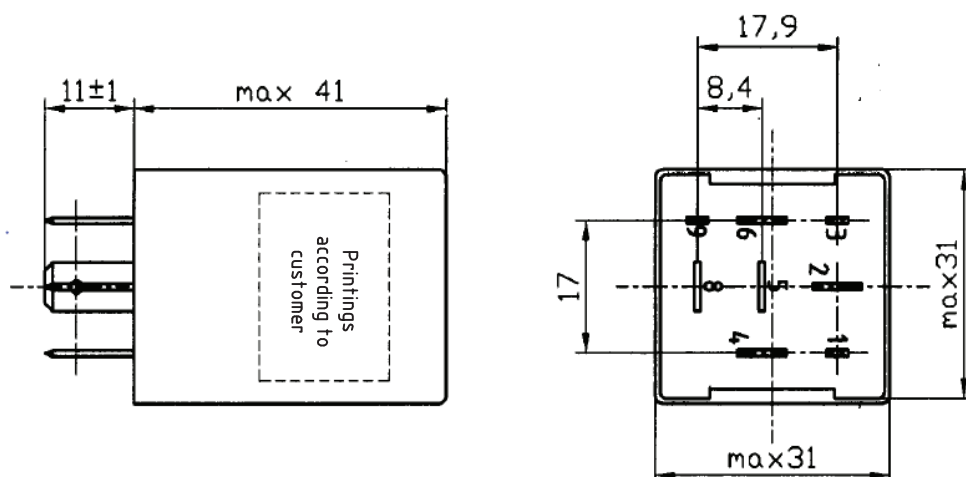


Order number: 41 9 3020

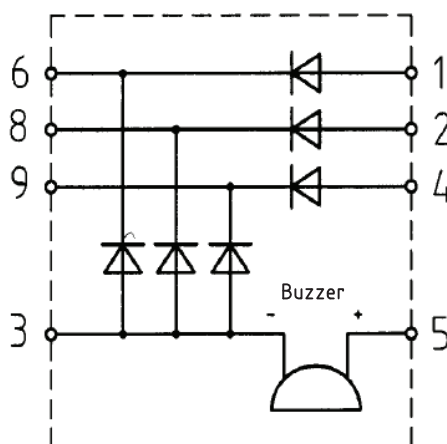
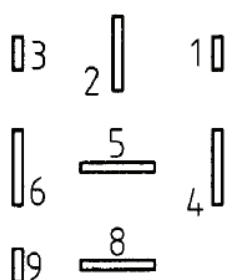
Nominal voltage:	12/24 V AC/DC
Usage:	Diode-combination with 4 diodes, with a common cathode. Anode and cathode are connected with 6,3 Pins
Diode-types:	1 N 4007
Transmitting power:	1 A
Peak Reverse Voltage:	1000V
Compliance:	Plastic housing with fixation bracket ISO 7588-C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
Materials:	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
Operating temperature:	-40°C...+85°C
Installation:	Installation on any socket

Specification Diode Module with Buzzer

41 9 3021 S



Connection plan



6 × 1 N 4007

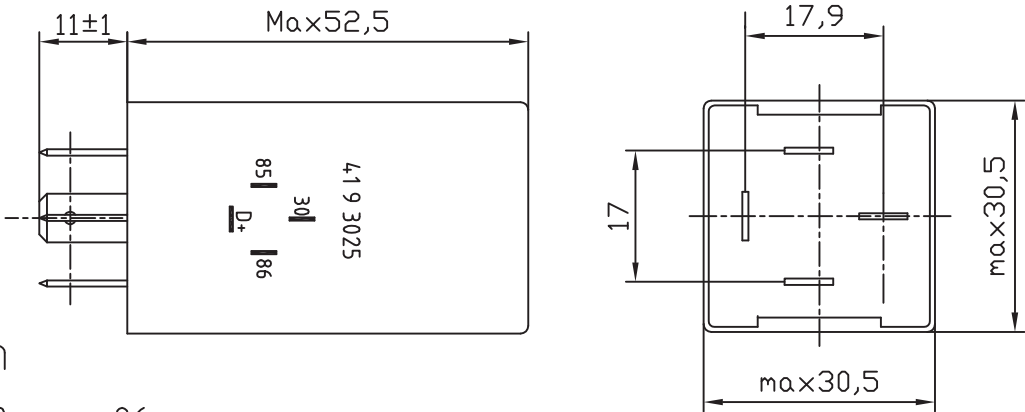
Dimensions in mm

Order number: 41 9 3021

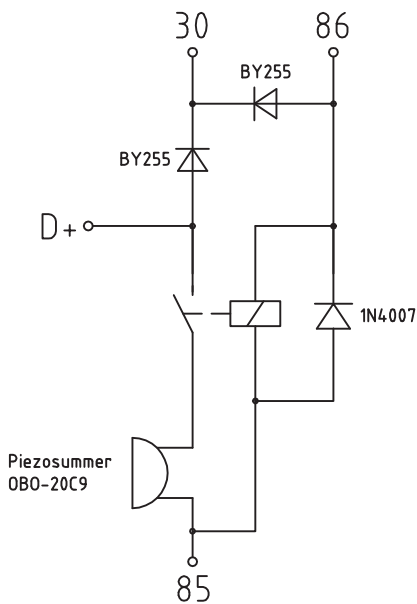
Nominal voltage:	12 VDC
Diode-types:	1 N 4007
Transmitting power:	1 A (each diode)
Peak Reverse Voltage:	1000V
Compliance:	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 2,8x0,8 OH / 6,3x0,8 OH
Materials:	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
Operating temperature:	-30°C...+85°C
Installation:	Installation on any socket

Specification Buzzer

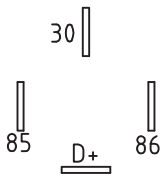
41 9 3022 S



Wiring diagram



Connection plan

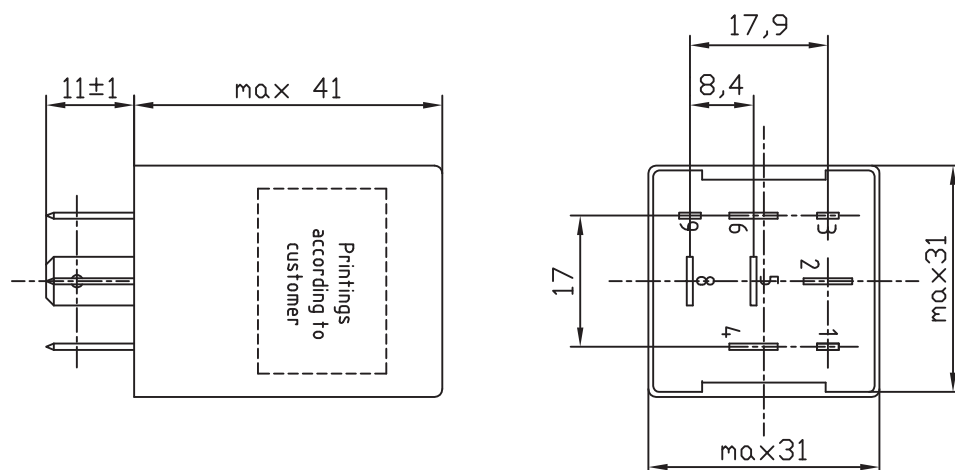


Order number: 41 9 3022

Nominal voltage:	12 VDC
Compliance:	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 2,8x0,8 OH / 6,3x0,8 OH
Materials:	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
Operating temperature:	-30°C...+85°C
Installation:	Installation on any socket

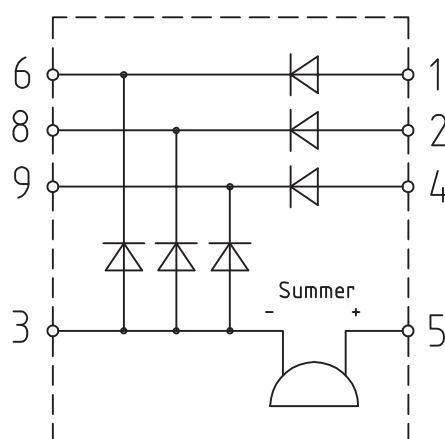
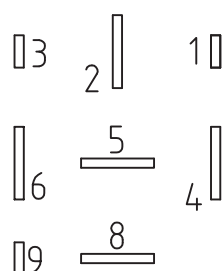
Specification Diode Module with Buzzer

41 9 3023 S



Dimensions in mm

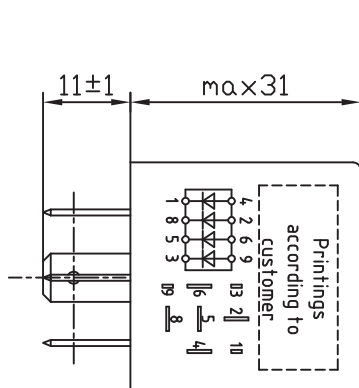
Connection plan



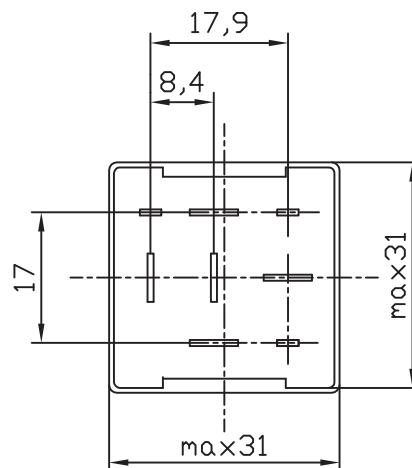
6 x SM 4007

Order number: 41 9 3023

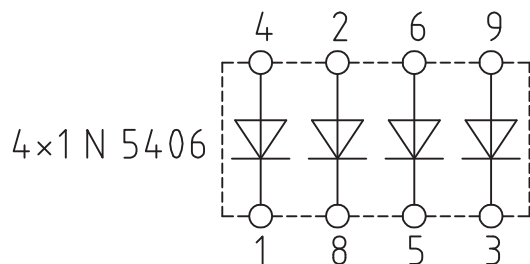
<u>Nominal voltage:</u>	12 VDC
<u>Diode-types:</u>	SM4007
<u>Transmitting power:</u>	1 A (each diode)
<u>Peak Reverse Voltage:</u>	1000V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 2,8x0,8 OH / 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-30°C...+85°C
<u>Installation:</u>	Installation on any socket



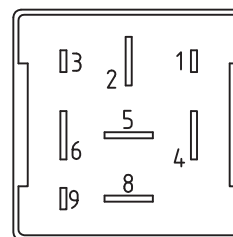
Dimensions in mm



Wiring diagram:



Connection plan



Order number: 41 9 3024

Nominal voltage:

12/24 V AC/DC

Usage:

Diode-combination with 4 diodes witch are not connected among each other. Anode and cathode are connected with 6,3 Pins resp. 2,8 Pins

Diode-types:

1 N 5406

Transmitting power:

3 A (each diode) total current through all diodes: 3,5 A

Peak Reverse Voltage:

600V

Compliance:

Plastic housing with fixation bracket ISO 7588- C, Terminals according to DIN EN ISO 8092-1 2,8x0,8 OH / 6,3x0,8 OH

Materials:

Housing molded with plastic Housing PA 6 GF 30 black base-plate PA 6.6 GF 30 black terminals CuZn tinned

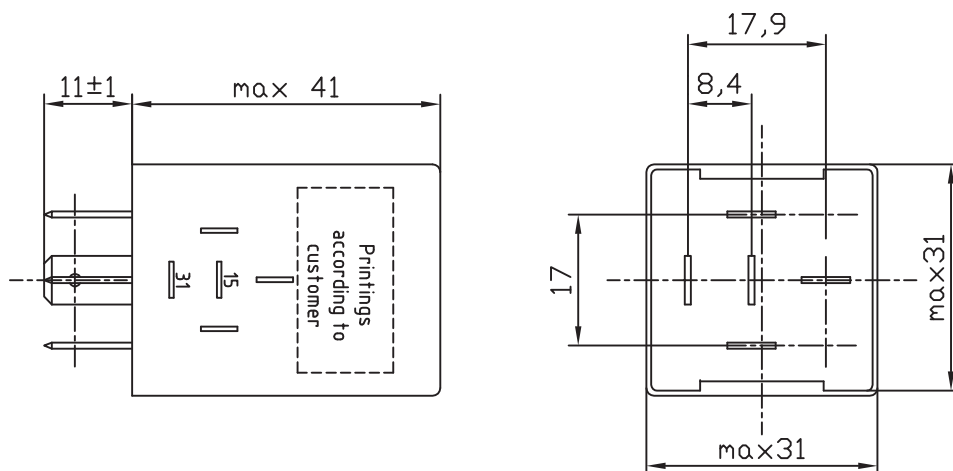
Operating temperature:

-40°C...+85°C

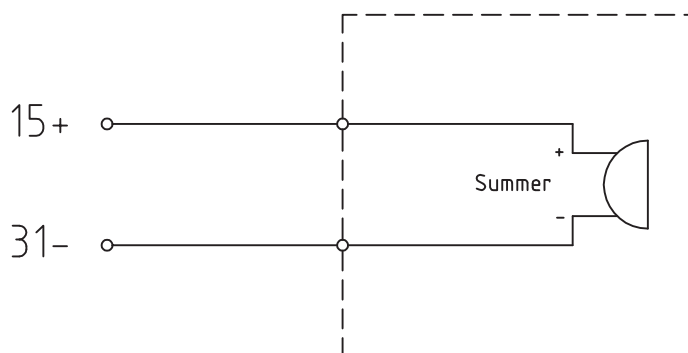
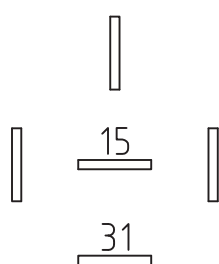
Installation:

Installation on any socket

Dimensions in mm

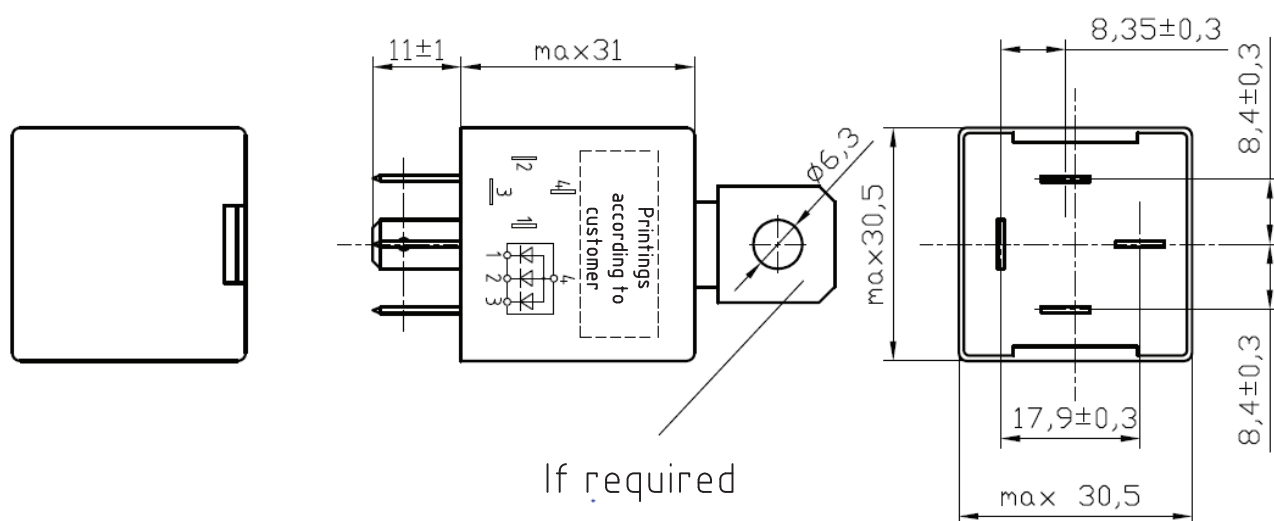


Connection plan



Order number: 41 9 3026

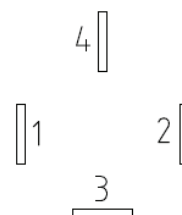
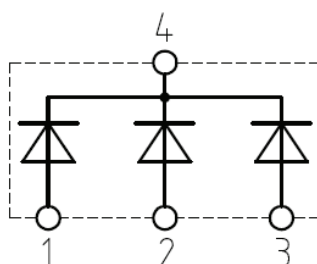
<u>Nominal voltage:</u>	12 VDC
<u>Operation voltage:</u>	9VDC...15VDC
<u>Frequency:</u>	3,4kHz
<u>Sound pressure:</u>	93 dB/30 cm
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588- 2C, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-30°C...+85°C
<u>Installation:</u>	Installation on any socket



Dimensions in mm

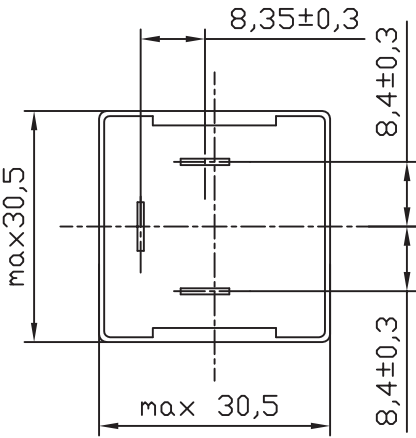
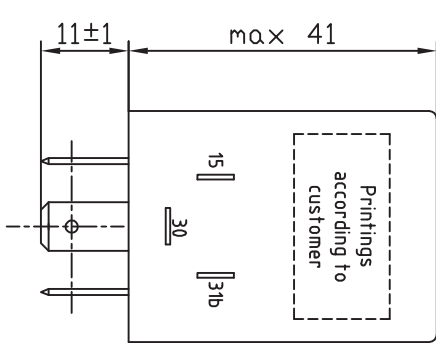
Connection plan

4 × 1 N 4007

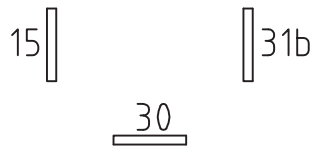


Order number: 41 9 3027

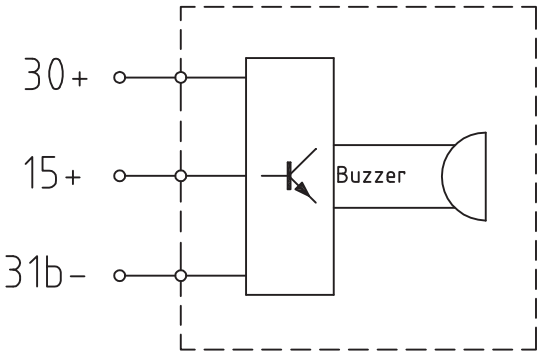
<u>Nominal voltage:</u>	12V/24 V AC/DC
<u>Usage:</u>	Diode-combination with 3 diodes with a common anode. Anode and cathode are connected with 6,3 Pins
<u>Diode-types:</u>	1 N 4007
<u>Transmitting power:</u>	1 A (each diode)
<u>Peak Reverse Voltage:</u>	1000V
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C, Terminals according to DIN EN ISO 8092-1 2,8x0,8 OH / 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6 GF 30 black Base-plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket



Connection plan Function



30	15	31b	Buzzer
1		0	on
1	1	0	off

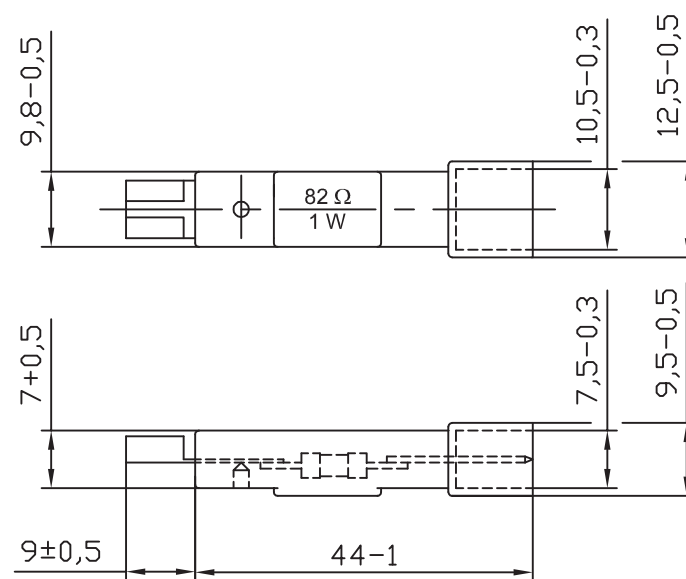


Order number: 41 9 3028

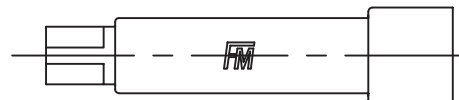
<u>Nominal Voltage:</u>	12 VDC
<u>Operating voltage:</u>	9VDC...16VDC
<u>Frequency:</u>	(3,4±0,5)kHz
<u>Sound pressure:</u>	73 dB/10 cm
<u>Compliance:</u>	Plastic housing with fixation bracket ISO 7588-2 C Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6 GF 30 black Base plate PA 6.6 GF 30 black Terminals CuZn tinned
<u>Operating temperature:</u>	-20°C...+70°C
<u>Storage temperature:</u>	-40°C...+85°C
<u>Installation:</u>	Installation on any socket

Specification Resistor Component 82 Ohm 1 Watt

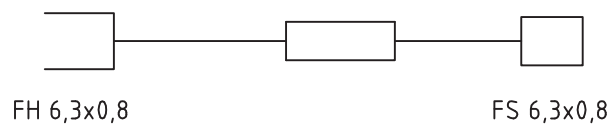
41 9 3301-01 S



Dimensions in mm



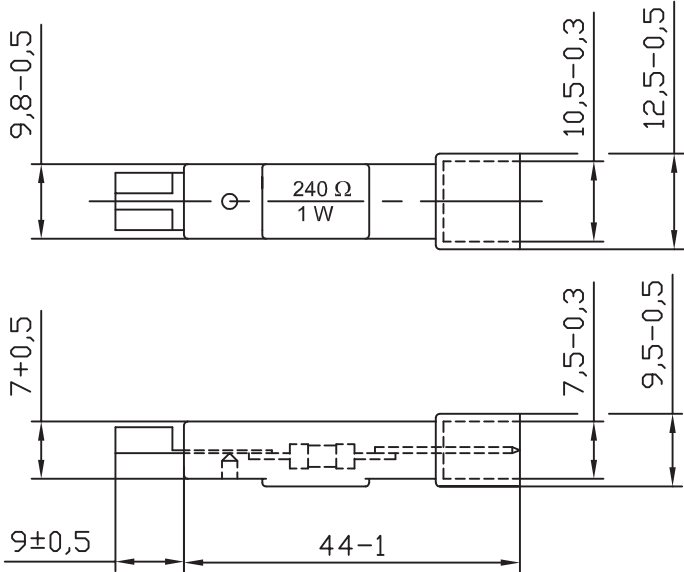
Connection assignment



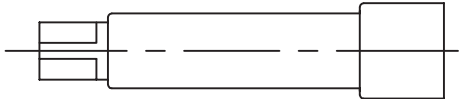
Order number: 41 9 3301-010

<u>Nominal voltage:</u>	50 V
<u>Type of resistor:</u>	82 Ohm±10% 1 Watt
<u>Compliance:</u>	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
<u>Operating temperature:</u>	-40°C...+120°C

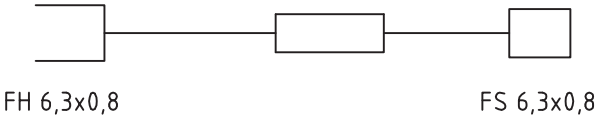
PKC GROUP 	Specification Resistor Component 240 Ohm 1 Watt	41 9 3302 S
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Dimensions in mm

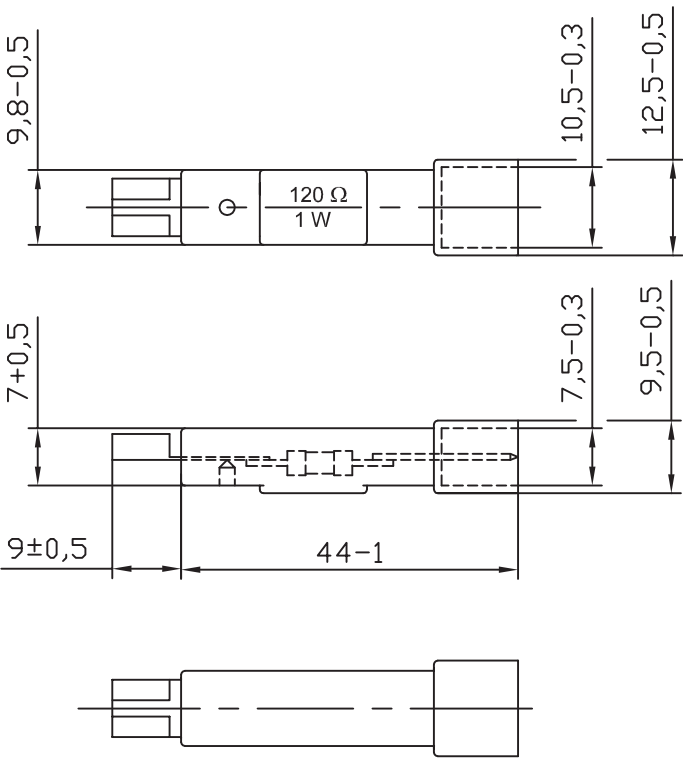


Connection assignment



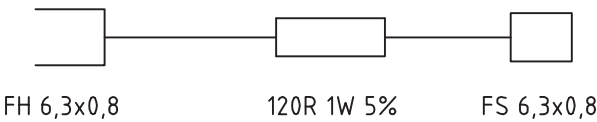
Order number: 41 9 3302

Nominal voltage:	50 V
Type of resistor:	240 Ohm±5% 1 Watt
Compliance:	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
Materials:	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
Operating temperature:	-40°C...+120°C



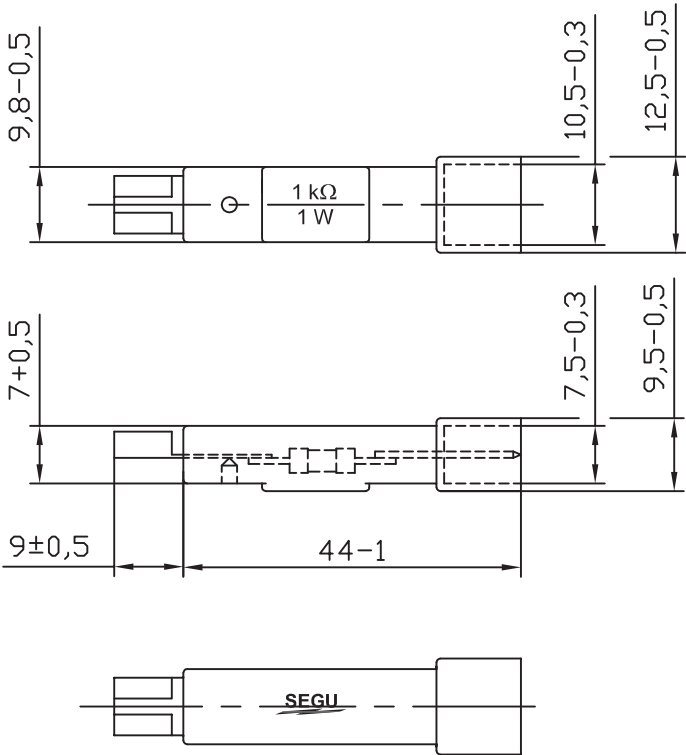
Dimensions in mm

Connection assignment



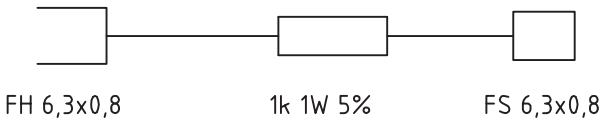
Order number: 41 9 3305

Nominal voltage:	50 V
Type of resistor:	120 Ohm±5% 1 Watt
Compliance:	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
Materials:	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
Operating temperature:	-40°C...+120°C



Dimensions in mm

Connection assignment

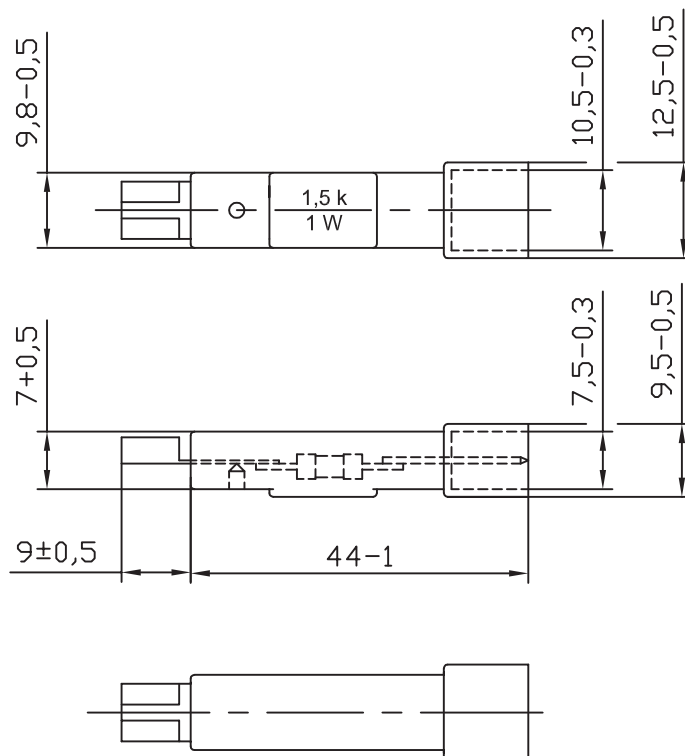


Order number: 41 9 3306

Nominal voltage:	50 V
Type of resistor:	1 kOhm±5% 1 Watt
Compliance:	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
Materials:	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
Operating temperature:	-40°C...+120°C

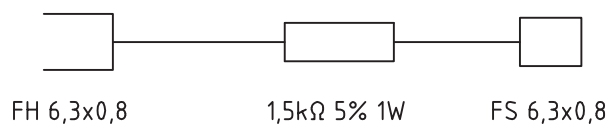
Specification Resistor Component 1,5 kOhm 1 Watt

41 9 3307 S



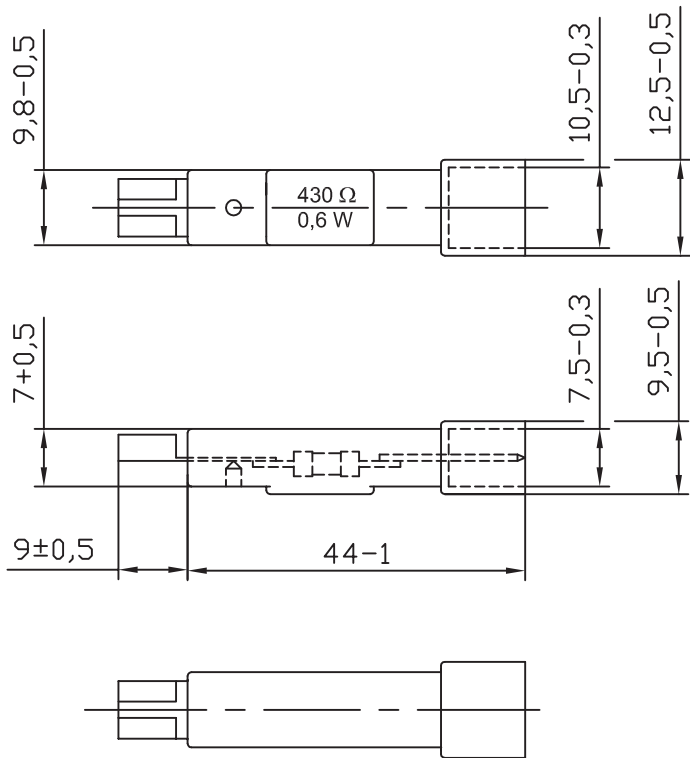
Dimensions in mm

Connection assignment



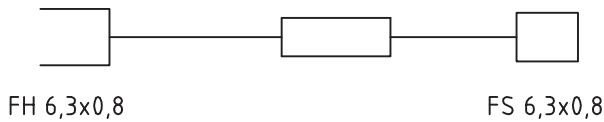
Order number: 41 9 3307

<u>Nominal voltage:</u>	50 V
<u>Type of resistor:</u>	1,5 kOhm±5% 1 Watt
<u>Compliance:</u>	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
<u>Operating temperature:</u>	-40°C...+120°C



Dimensions in mm

Connection assignment



Order number: 41 9 3310

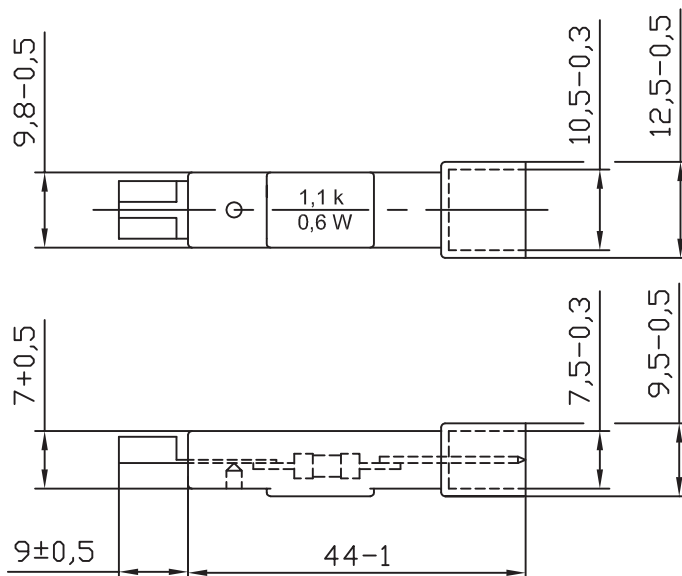
Nominal voltage:	50 V
Type of resistor:	430 Ohm±5% 0,6 Watt
Compliance:	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
Materials:	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
Operating temperature:	-40°C...+120°C

Specification

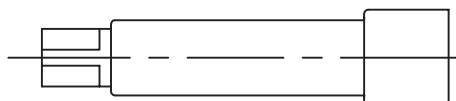
Resistor Component

1,1 kOhm 0,6 Watt

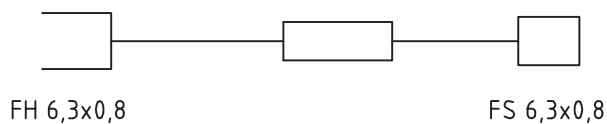
41 9 3311 S



Dimensions in mm

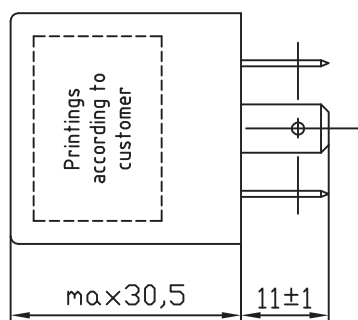
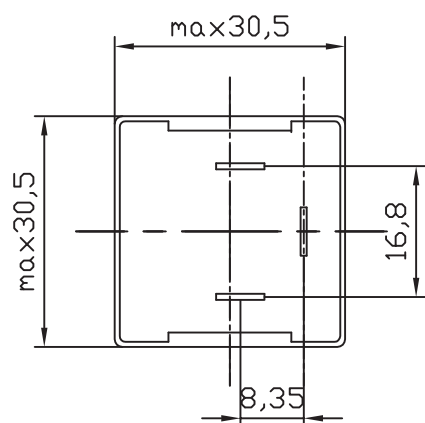


Connection assignment



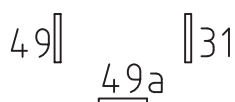
Order number: 41 9 3311

<u>Nominal voltage:</u>	50 V
<u>Type of resistor:</u>	1,1 kOhm±5% 0,6 Watt
<u>Compliance:</u>	Resistor molded with terminals 6,3 x 0,8 resp. socket 6,3 x 0,8 according to DIN EN ISO 8092-1
<u>Materials:</u>	Plastic overmoulding: PA 66 GF35 - grey - Terminal: CuZn tinned Socket: CuZn tinned
<u>Operating temperature:</u>	-40°C...+120°C

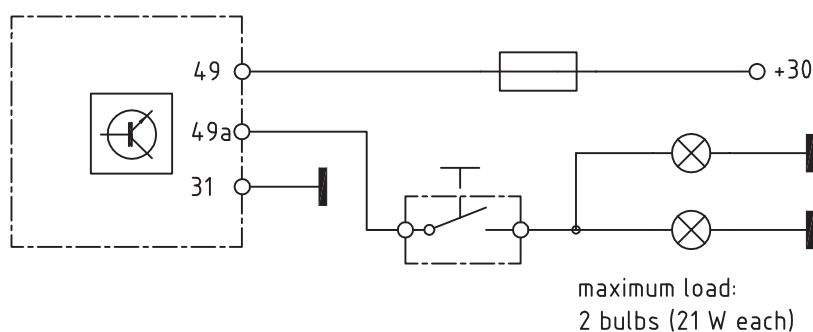


Dimensions in mm

Pin assignment



Connection plan



Order number: 41 9 0149

Nominal voltage:

12 VDC and 24 VDC

Usage:

Fully electronic Pulse Encoder for universal use,
output short-circuit-proof

Connection values:

max. nominal load 42 W

Control of functions:

none

Compliance:

Plastic housing with terminals according to ISO 7588-CA,
Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.

Frequency:

90±30 flashes per minute for direction indication
and warning flashing

Duration of light pulse:

50%±10%

Nominal voltage:

9 VDC...33 VDC

Electromagnetic compatibility:

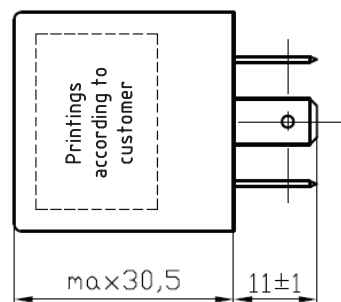
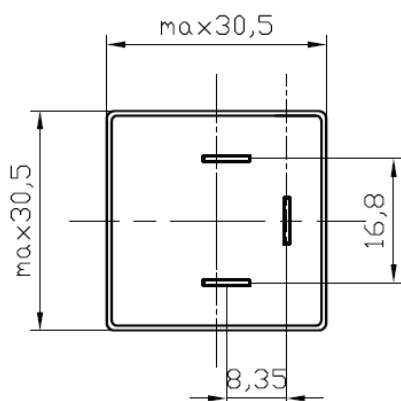
Interference immunity and interference
emission according to 72/245/EWG standard

Operating temperature:

-30°C...+85°C

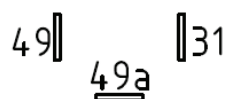
Installation:

On plug-in socket

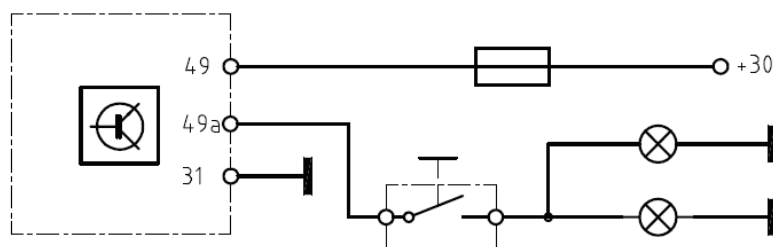


Dimensions in mm

Pin assignment



Connection plan



maximum load:
2 bulbs (21 W each)

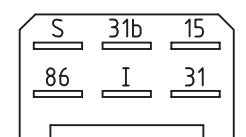
Order number: 41 9 0150

<u>Nominal voltage:</u>	12 VDC und 24 VDC
<u>Usage:</u>	Fully electronic Pulse Encoder for universal use, vibration resistant, output short-circuit-proof
<u>Connection values:</u>	max. nominal load 42 W
<u>Control of functions:</u>	none
<u>Compliance:</u>	Plastic housing with terminals according to ISO 7588-CA, Terminals according to DIN EN ISO 8092-1 6,3x0,8 OH.
<u>Frequency:</u>	90±30 flashes per minute for direction indication and warning flashing
<u>Duration of light pulse:</u>	50%±10%
<u>Nominal voltage:</u>	9 VDC...33 VDC
<u>Electromagnetic compatibility:</u>	Interference immunity and interference emission according to 72/245/EWG standard
<u>Degree of protection:</u>	IP 66 according to DIN 40 050-9
<u>Operating temperature:</u>	-30°C...+85°C
<u>Installation:</u>	On plug-in socket

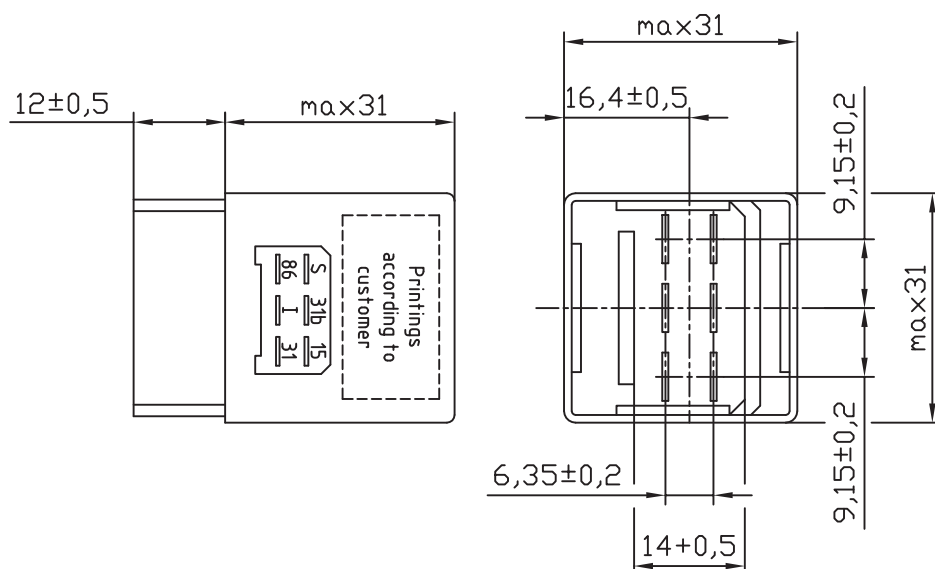
Specification

Wipe-Wash-Interval-Relay

12 V $T_{INT}=6,5s$



Pin assignment

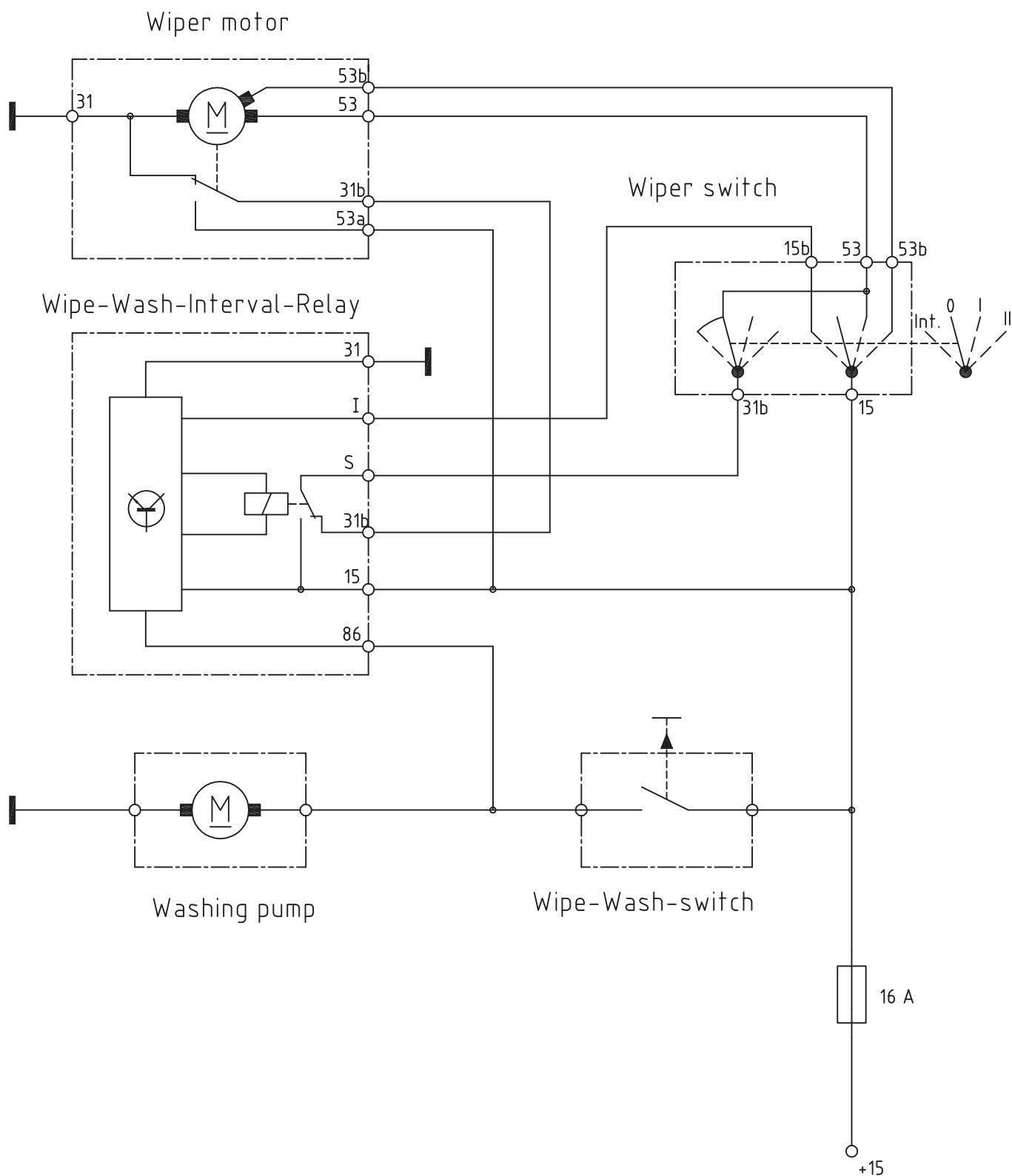


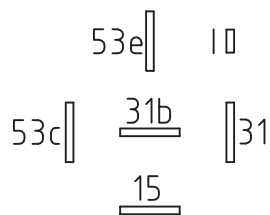
Dimensions in mm

Order number: 41 9 5000

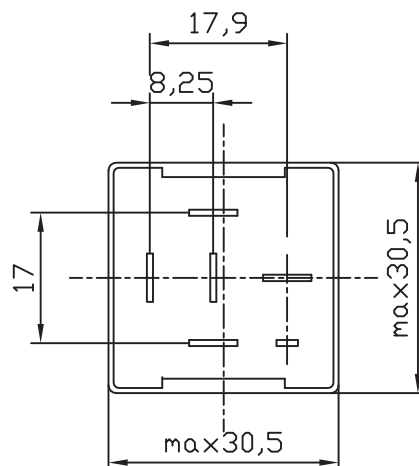
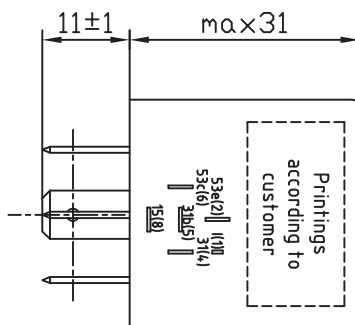
<u>Nominal voltage:</u>	12 VDC
<u>Usage:</u>	In combination with an appropriate Wiperswitch, the Wipe-Wash-Interval-Relay controls a Wiper motor in interval operation or a Washing pump and a Wiper motor in Wipe-Wash operation. The Wipe-Wash function has a higher priority than the interval function.
<u>Interval function:</u>	
<u>Interval pause:</u>	6,5s±1,5s
<u>Wipe-Wash-function:</u>	
<u>Wipe time:</u>	3,9s±1s
<u>Delay time:</u>	0,6s±0,2s
<u>Switching current:</u>	Normally closed contact 10A Normally open contact 20 A
<u>Compliance:</u>	Plastic housing with terminals according to DIN EN ISO 8092-1 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6.6 GF 30 black Base plate PA 6.6 GF 30 black Terminals CuZn30 tinned
<u>Operating voltage:</u>	9 VDC...16 VDC
<u>Operating temperature:</u>	-40°C...+85°C
<u>Connection:</u>	According to 41 9 5000 S Page 2
<u>Installation:</u>	On plug-in socket

Connection plan





Pin assignment



Dimensions in mm

Order number: 41 9 5001

Nominal voltage:

24 VDC

Usage:

In combination with an appropriate Wiperswitch, the Wipe-Wash-Interval-Relay controls a Wiper motor in interval operation or a Washing pump and a Wiper motor in Wipe-Wash operation. The Wipe-Wash function has a higher priority than the interval function.

Interval function:

Intervall pasue:

$5,3s \pm 1s$

Wipe-Wash-function:

Wipe time:

$3,5s \pm 1s$

Switching current:

Normally closed contact 10A

Normally open contact 20 A

Compliance:

Plastic housing with terminals according to DIN EN ISO 8092 6,3x0,8 OH und 2,8x0,8 OH.

Materials:

Housing PA 6.6 GF 30 black

Base plate PA 6.6 GF 30 black

Terminals CuZn30 tinned

Operating voltage:

18 VDC...32 VDC

Operating temperature:

$-35^{\circ}\text{C} \dots +85^{\circ}\text{C}$

Storage temperature:

$-40^{\circ}\text{C} \dots +85^{\circ}\text{C}$

Weight:

23g

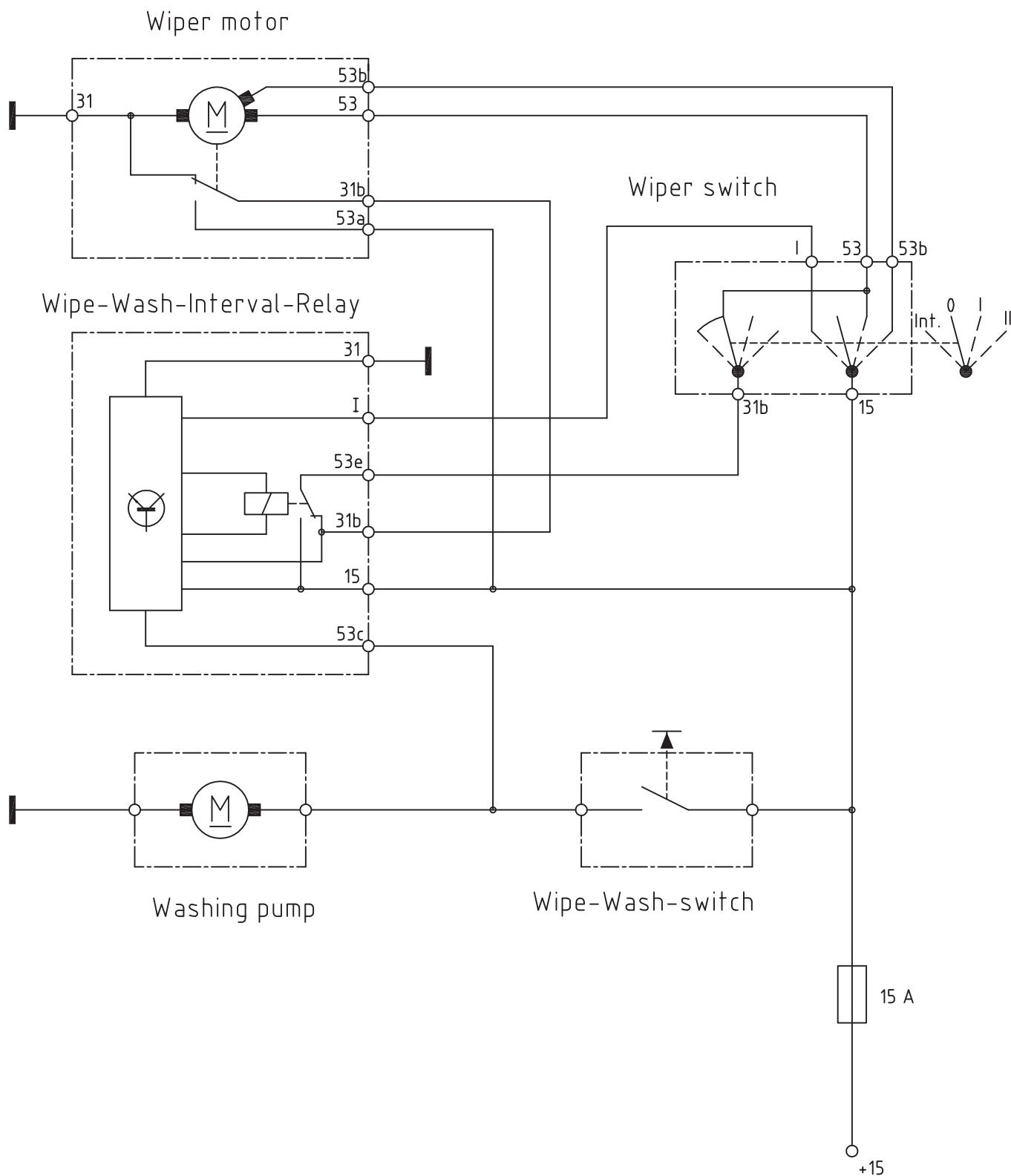
Connection:

According to 41 9 5001 S Page 2

Installation:

On plug-in socket

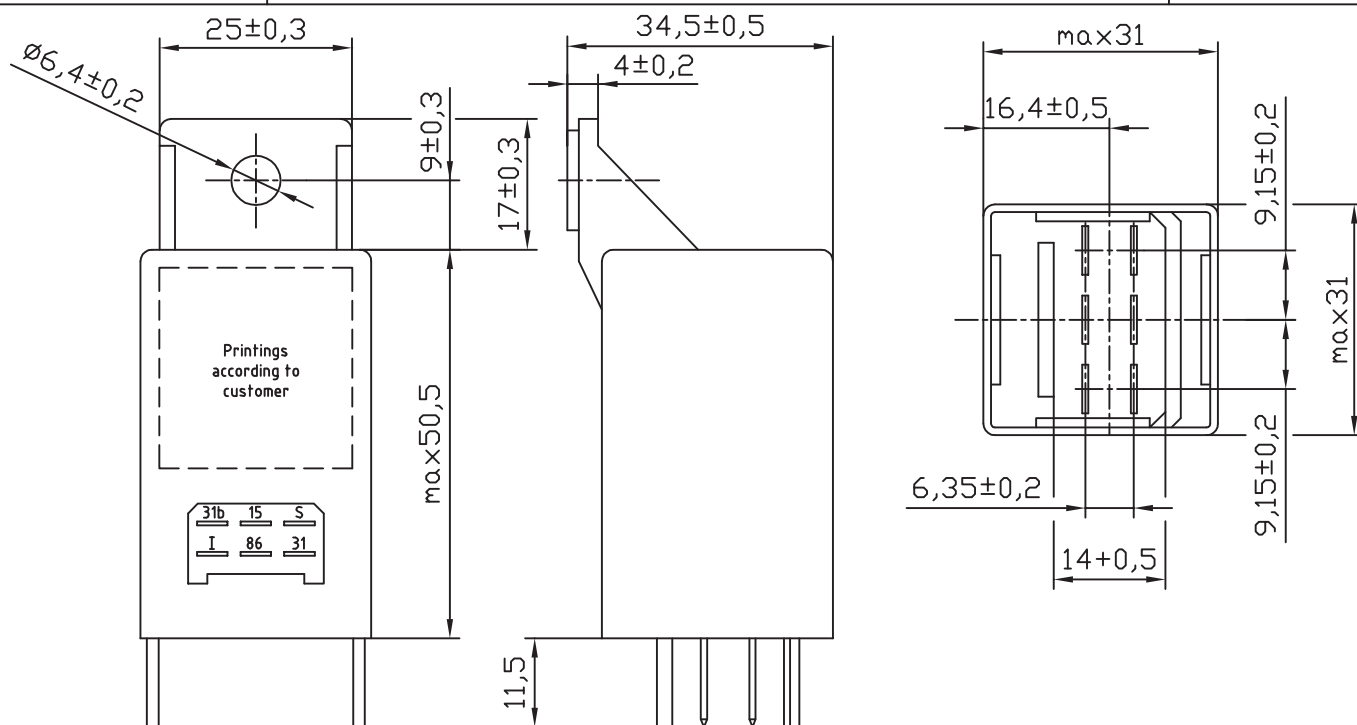
Connection plan



Specification

Wipe-Wash-Interval-Control

12V

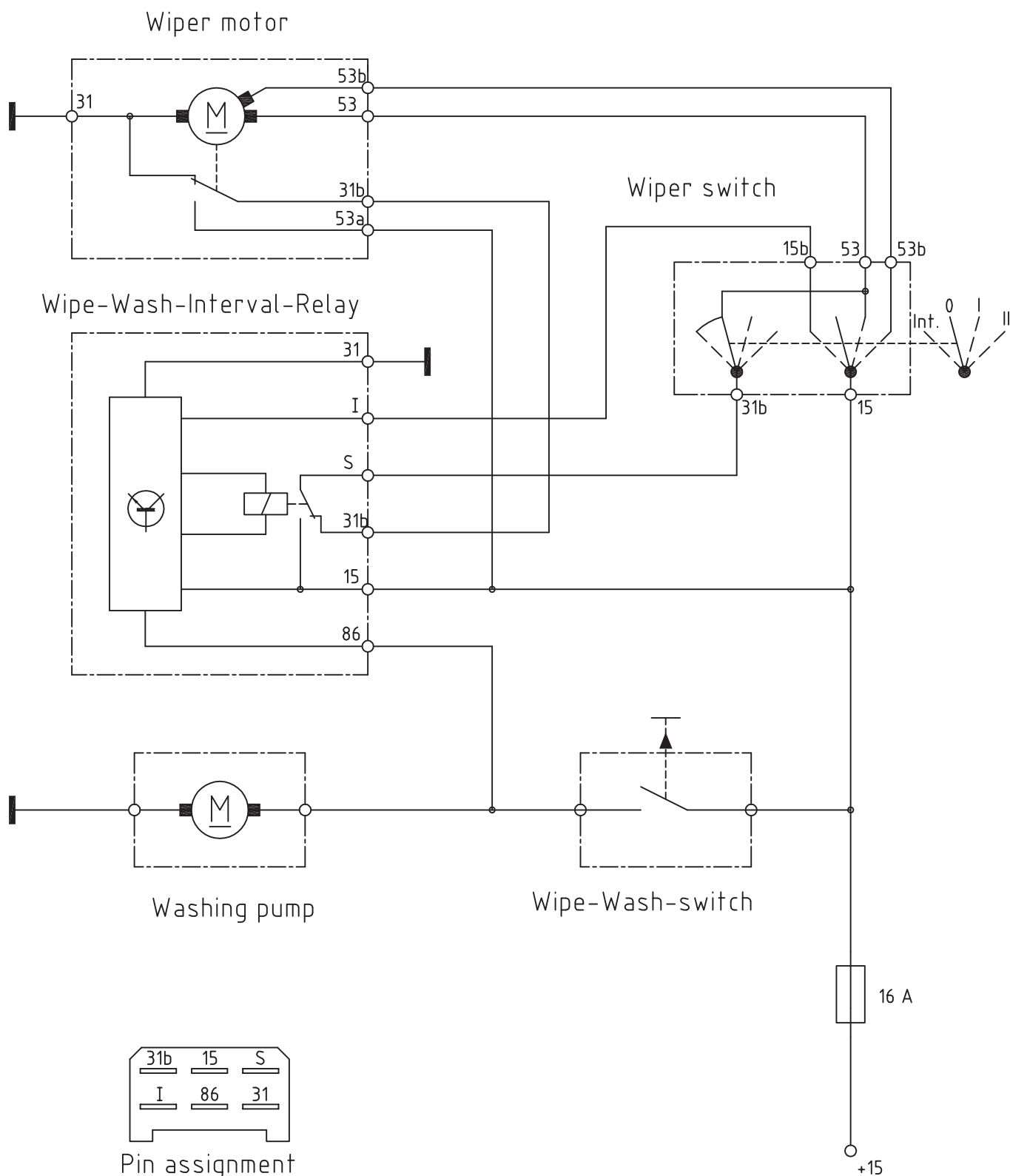


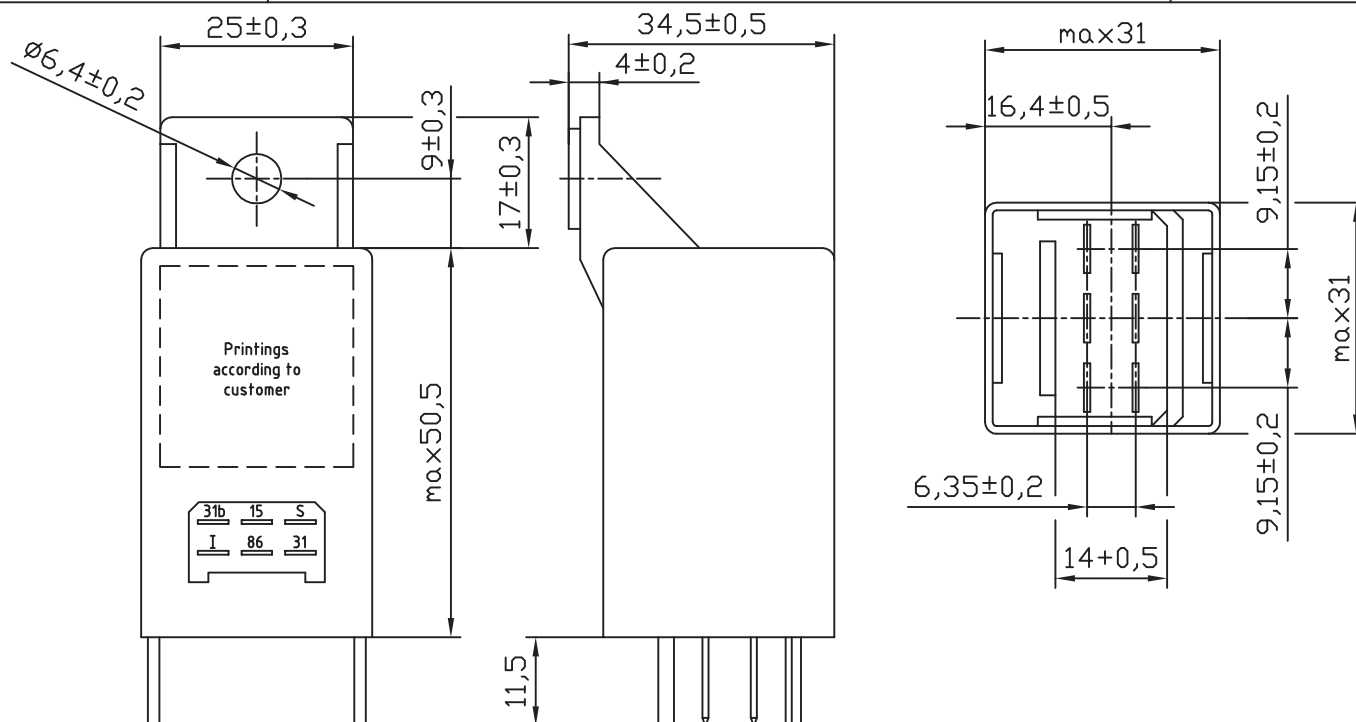
Dimensions in mm

Order number: 41 9 5002

<u>Nominal voltage:</u>	12 VDC
<u>Usage:</u>	In combination with an appropriate Wiperswitch, the Wipe-Wash-Interval-Relay controls a Wiper motor in interval operation or a Washing pump and a Wiper motor in Wipe-Wash operation. The Wipe-Wash function has a higher priority than the interval function.
<u>Interval function:</u>	
<u>Interval pause:</u>	5s±1s
<u>Switch-on delay:</u>	<1s
<u>Wisch-Wasch-Function:</u>	
<u>Wipe time:</u>	4s±1s
<u>Switching current:</u>	Normally closed contact 10A Normally open conact 20 A
<u>Compliance:</u>	Plastic housing with terminals according to DIN EN ISO 8092-1 6,3x0,8 OH
<u>Materials:</u>	Housing PA 6.6 GF 30 black Base plate PA 6.6 GF 30 black Terminals CuZn30 tinned
<u>Operating voltage:</u>	10 VDC...15 VDC
<u>Operating temperature:</u>	-25°C...+70°C
<u>Storage temperature:</u>	-40°C...+90°C

Connection plan





Dimensions in mm

Order number: 41 9 5003

Nominal voltage:

24 VDC

Usage:

In combination with an appropriate Wiperswitch, the Wipe-Wash-Interval-Relay controls a Wiper motor in interval operation or a Washing pump and a Wiper motor in Wipe-Wash operation. The Wipe-Wash function has a higher priority than the interval function.

Interval function:

Interval pause:

5s $\pm$ 1s

Switch-on delay:

<1s

Wipe-Wash-function:

Wipe time:

4s $\pm$ 1s

Switching current:

Normally closed contact 5A

Normally open contact 10 A

Compliance:

Plastic housing with terminals according to

DIN EN ISO 8092-1 6,3x0,8 OH

Materials:

Housing PA 6.6 GF 30 black

Base plate PA 6.6 GF 30 black

Terminals CuZn30 tinned

Operating voltage:

20 VDC...30 VDC

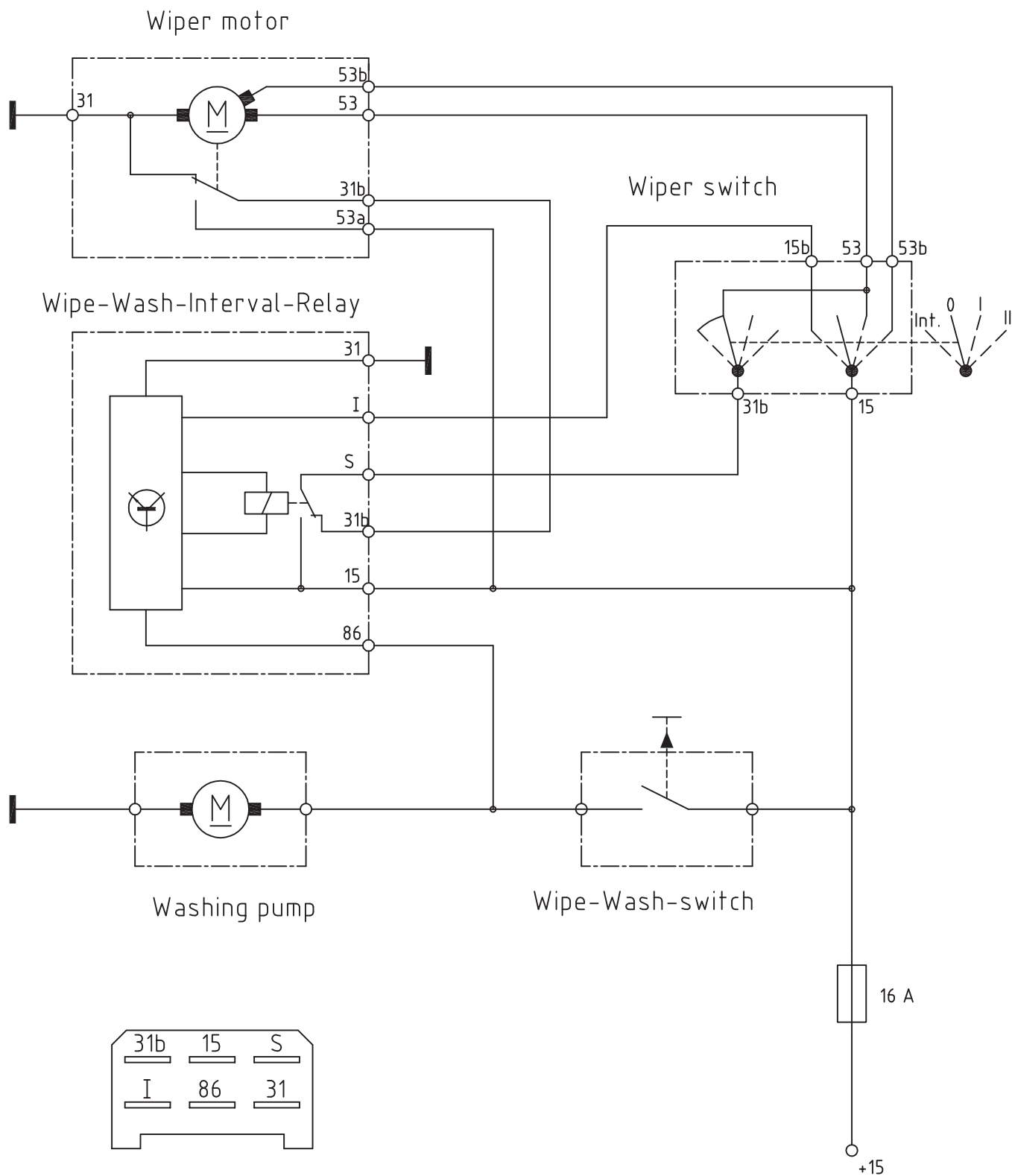
Operating temperature:

-25°C...+70°C

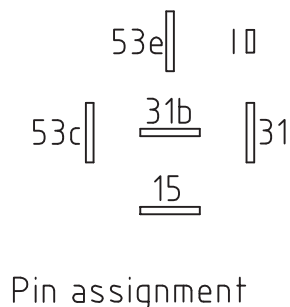
Storage temperature:

-40°C...+90°C

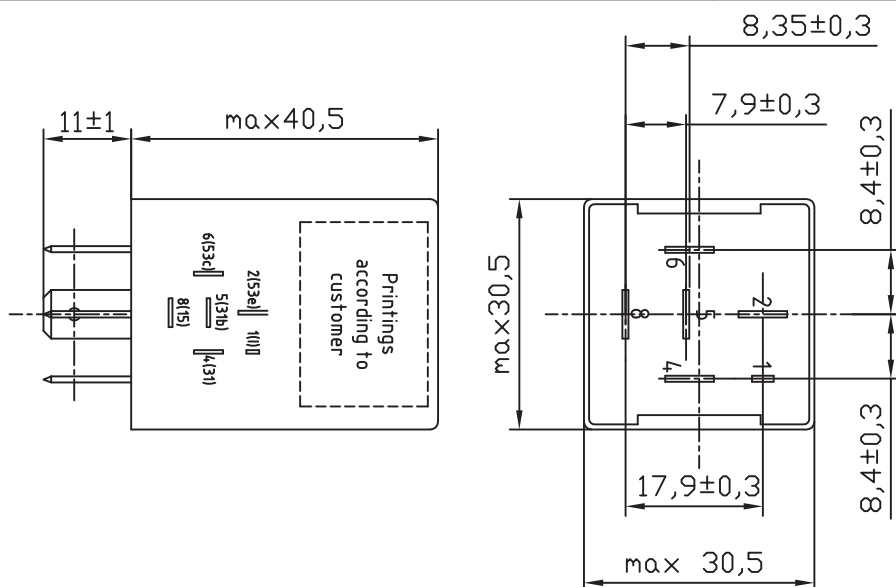
Connection plan



Pin assignment



Dimensions in mm



Order number: 41 9 5004

Nominal voltage:

24 VDC

Usage:

In combination with an appropriate Wiperswitch, the Wipe-Wash-Interval-Relay controls a Wiper motor in interval operation or a Washing pump and a Wiper motor in Wipe-Wash operation. The Wipe-Wash function has a higher priority than the interval function.

Interval function:

Interval pause:

5,3s±1s

Wipe-Wash-function:

Wipe time:

3,5s±1s

Switching current:

Normally closed contact (31b): 15A

Normally open contact (15): 25 A

Compliance:

Plastic housing with terminals according to DIN EN ISO 8092 6,3x0,8 OH und 2,8x0,8 OH.

Materials:

Housing PA 6.6 GF 30 black

Base plate PA 6.6 GF 30 black

Terminals CuZn30 tinned

Operating voltage:

18 VDC...32 VDC

Operating temperature:

-35°C...+85°C

Storage temperature:

-40°C...+85°C

Connection:

According to 41 9 5004 S Page 2

Installation:

On plug-in socket

Connection plan

