

# Pedal-controller P20

The pedal-controller P20 is a rugged switching device for electro-hydraulic. The modular design enables the switching device to be used universally. The P20 is resistant to oil, maritime, climate, ozone and UV radiation.

## Technical data

Mechanical life P20	10 million operating cycles
Operation temperature	-40°C til +60°C
Degree of protection P20	IP67 (electronic)
Functional safety	PLd (EN ISO 13849) possible



	P20	- 1	- ZZ	- E1041	- X
<b>Basic unit</b>					
P20 Pedal-controller					
<b>Pedal</b>					
1 Pedal shape A 0-25°					
2 Pedal shape B 0-25°					
<b>Spring return</b>					
Z Spring return					
ZZ Spring return redundant					
<b>Interfaces</b> (description see on the following pages)					
E 0xx Switching output					
E 1xx Voltage output					
E 2xx Current output					
E 3xx CAN-interface					
E 4xx CANOpen Safety interface					
<b>Special model</b>					
X Special / customer-specific					

Example

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# Pedal-controller P20

## Digital output

Supply voltage	9-32V DC
Current carrying capacity	Direction signal 150mA Zero position signal 500mA
Wiring	Cable 500mm long with plug connector (male) CPC 17 - 14-pole

1 Direction signal + 1 zero position signal (galvanically isolated)

E003 1

## Voltage output (not stabilized)

Supply voltage	4,75-5,25V DC
Current carrying capacity	Direction signal 8mA
Wiring	Cable 500mm long with plug connector (male) CPC 17 - 14-pole

Characteristic: = contra rotating, = concurrently rotating

0,5...2,5...4,5V redundant + 1 direction signal

E145 1



## Voltage output

Supply voltage	9-32V DC (*11,5-32V)
Current carrying capacity	Direction signal 150mA Zero position signal 500mA
Wiring	Cable 500mm long with plug connector (male) CPC 17 - 14-pole

Characteristic: = contra rotating, = concurrently rotating

0,5...2,5...4,5V redundant + 1 direction signal + 1 zero position signal (galvanically isolated)

E146 1



0...10V redundant + 1 direction signal + 1 zero position signal (galvanically isolated supply voltage 11,5 - 32V DC)

E147 1



*Voltage output with other value on request!*

## Current output

Supply voltage	9-32V DC
Current carrying capacity	Direction signal 150mA Zero position signal 500mA
Wiring	Cable 500mm long with plug connector (male) CPC 17 - 14-pole

0...20mA + 1 direction signal + 1 zero position signal (galvanically isolated), sensor redundant,  
1 output with error monitoring and error signal

E222 1

4...20mA + 1 direction signal + 1 zero position signal (galvanically isolated), sensor redundant,  
1 output with error monitoring and error signal

E223 1

*Current output with other value on request!*

## CAN

Supply voltage	9-36V DC
Idle current consumption	120mA
Current carrying capacity	Direction signal 250mA
Protocol	CANOpen CiA DS 301 or SAE J 1939
Baud rate	125kBit/s til 1Mbit/s
Output value	0...255
Wiring	CAN (IN) cable 500mm with plug connector M12 (male) CAN (OUT) cable 500mm with plug connector M12 (female)

## CAN P20

E307 1

with additional digital output separately wired (not via CAN)

- 1 direction signal

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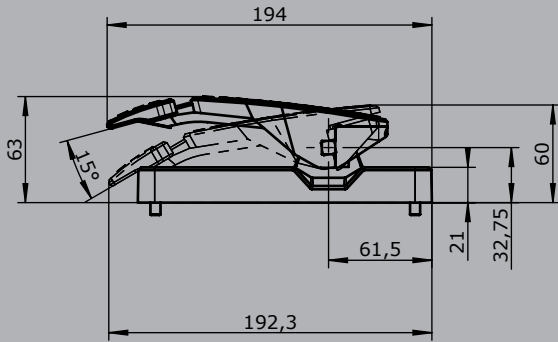
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# Pedal-controller P20

CANOpen Safety	
Supply voltage	9-36V DC
Idle current consumption	120mA
Current carrying capacity	Direction signal 250mA
Baud rate	125kBit/s til 1MBit/s
Output value	0...255
Protocol	CANOpen Safety CIA 304
Wiring	CAN (IN) cable 500mm with plug connector M12 (male) CAN (OUT) cable 500mm with plug connector M12 (female)
<b>CANOpen Safety P20</b>	<b>E407 1</b>
with additional digital outputs separately wired (not via CAN)	
- 1 direction signal	2

Attachments	
Mating connector AMP CPC 17 14-pole (female contact)	5300000211
Mating connector AMP CPC 17 14-pole (female contact) with 2m cable	5300000213
Mating connector M12 male insert with 2m cable	20201140
Mating connector M12 female insert with 2m cable	20202298

**Pedal form A**



**Pedal form B**

