



## IMPACT20 COMPACT I/O MODULES

- IP20 protection
- Efficient
- Cost-effective



### FOCUSED ON THE ESSENTIALS

Murrelektronik's Impact20 is the perfect solution when you need a cost-effective application of fieldbus I/O modules in terminal boxes and control panels.













- **Predefined Inputs and Outputs**
  - Helps facilitate configuration
- **Single Channel Diagnostic via LED**
  - Indicates failures on the spot
- **Group Diagnostic via the Bus**
  - Facilitates failure analysis
- **Channel-Related Shut Down**
  - Only the affected channel is shutdown



Impact20

Impact20

### Impact20 I/O Modules

 <p><b>Impact20 P</b> • Digital I/Os</p>  <p>Page 4.6.2</p>	 <p><b>Impact20 PNI0</b> • Digital I/Os</p>  <p>Page 4.6.2</p>
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 <p><b>Impact20 C</b> • Digital I/Os</p>  <p>Page 4.6.5</p>	 <p><b>Impact20 DN</b> • Digital I/Os</p>  <p>Page 4.6.6</p>

## IMPACT20



**Impact20-P**  
D16



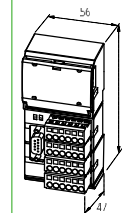
**Impact20-P**  
D18/DO8 - 2 A

**Impact20-P**  
DO16 - 0.5 A



Approvals:  

Order Data	Art. No.	Art. No.	Art. No.
UI16	56900		
D18/DO8 - 2 A		56901	
DO16 - 0.5 A			56902
Connections			
Fieldbus	SUI-DI		
Sensor-system/actuator supply	6 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
Fieldbus			
Operating voltage	24 V DC (EN 61131-2)		
Operating modes	Sync and freeze mode are supported		
Transfer rate	to 12 Mbit/s		
Addressing	Rotary switch 2...99		
Input			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)	-	-
Output			
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
Switching current per output	-	max. 2 A (short circuit and overload protected)	max. 0.5 A (short circuit and overload protected)
Total current	-	max. 8 A	
Diagnostic			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
General data			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60725)		
Dimension drawing			



Notes

## IMPACT20



### Impact20-PN

D16



### Impact20-PN

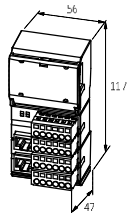
D18/DO8 - 2 A

### Impact20-PN

DO16 - 0.5 A



Order Data	Art. No.	Art. No.	Art. No.
U16	56920		
D18/DO8 - 2 A		56921	
DO16 - 0.5 A			56922
<b>Connections</b>			
Fieldbus	2 x RJ45		
Sensorsystem/actuator supply	6 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
<b>Fieldbus</b>			
Operating voltage	24 V DC (EN 61131-2)		
Operating modes	Autonegotiation/Auto MDI/MDI-X		
Transfer rate	to 100 MBit/s Full Duplex		
<b>Input</b>			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
<b>Output</b>			
Switching current per output	-	max. 2 A (short circuit and overload protected)	max. 0.5 A (short circuit and overload protected)
Total current	-	max. 8 A	
<b>Diagnostic</b>			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
<b>General data</b>			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60715)		
<b>Dimension drawing</b>			



Notes

## IMPACT20

EtherNet/IP  
CONFIDENCE MODEL

### Impact20-E

D16



### Impact20-E

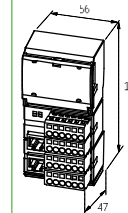
D18/DO8 - 2 A

### Impact20-E

DO16 - 0.5 A



Order Data	Art. No.	Art. No.	Art. No.
U16	56916		
D18/DO8 - 2 A		56917	
DO16 - 0.5 A			56918
<b>Connections</b>			
Fieldbus	2 x RJ45		
Sensorsystem/actuator supply	6 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
<b>Fieldbus</b>			
Operating voltage	24 V DC (EN 61131-2)		
Transfer rate	to 100 MBit/s Full Duplex		
Addressing	DHCP, BOOTP or IP address by rotary switch		
<b>Input</b>			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
<b>Output</b>			
Switching current per output	-	max. 2 A (short circuit and overload protected)	max. 0.5 A (short circuit and overload protected)
Total current	-	max. 8 A	
<b>Diagnostic</b>			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
<b>General data</b>			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60715)		
<b>Dimension drawing</b>			



Notes

## IMPACT20

EtherCAT

**Impact20-EC**  
D116

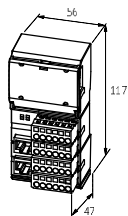
**Impact20-EC**  
D18/DO8 - 2 A

**Impact20-EC**  
DO16 - 0.5 A



Approvals:

Order Data	Art. No.	Art. No.	Art. No.
U116	56912		
D18/DO8 - 2 A		56913	
DO16 - 0.5 A			56914
<b>Connections</b>			
Fieldbus	2 × RJ45		
Sensorsystem/actuator supply	6 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
<b>Flexibus</b>			
Operating voltage	24 V DC (EN 61131-2)		
Operating modes	Autocrossing, Autonegotiation		
Transfer rate	to 100 Mbit/s		
Addressing	automatic		
<b>Input</b>			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
<b>Output</b>			
Switching current per output	–	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)
Total current	–	max. 8 A	
<b>Diagnostic</b>			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
<b>General data</b>			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60725)		
<b>Dimension drawing</b>			



Notes

## IMPACT20

CANopen

**Impact20-C**  
D116

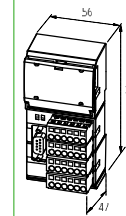
**Impact20-C**  
D18/DO8 - 2 A

**Impact20-C**  
DO16 - 0.5 A



Approvals:

Order Data	Art. No.	Art. No.	Art. No.
U116	56904		
D18/DO8 - 2 A		56905	
DO16 - 0.5 A			56906
<b>Connections</b>			
Fieldbus	SUI-D9		
Sensorsystem/actuator supply	6 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 × spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
<b>Flexibus</b>			
Operating voltage	24 V DC (EN 61131-2)		
Operating modes	Polling, change of state, cyclic		
Transfer rate	max. 1 Mbit/s		
Addressing	Rotary switch 1...99		
<b>Input</b>			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
<b>Output</b>			
Switching current per output	–	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)
Total current	–	max. 8 A	
<b>Diagnostic</b>			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
<b>General data</b>			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60725)		
<b>Dimension drawing</b>			



Notes

## IMPACT20

DeviceNet

Approvals:  

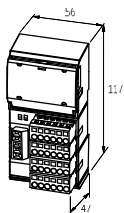
**Impact20-DN**  
DI16



**Impact20-DN**  
DI8/DO8-2 A

**Impact67-DN**  
DO16-0.5 A

Order Data	Art.No.	Art.No.	Art.No.
LI16	56908		
DI8/DO8-2 A		56909	
DO16-0.5 A			56910
<b>Connections</b>			
Fieldbus	5 x pluggable spring clamp terminals		
Sensorsystem/actuator supply	6 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
I/O ports	18 x spring clamp plug-in terminals, max. 2.5 mm <sup>2</sup> (max. 12 A)		
<b>Flexibus</b>			
Operating voltage	24 V DC (EN 61131-2)		
Operating modes	Polling, change of state, Cyclic		
Transfer rate	125 kbit/s, 250 kbit/s, 500 kbit/s		
Addressing	Rotary switch 0...63		
<b>Input</b>			
Sensor supply US	24 V DC, (EN 61131-2), max. 700 mA per module, (short-circuit and overload protected)		
Type	for 3-wire sensors or mechanical switches, p-switching (EN 61131-2)		
<b>Output</b>			
Switching current per output	–	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)
Total current	–	max. 8 A	
<b>Diagnostic</b>			
Communication status	via LED		
Diagnostic via LED	per module	per module and channel	
Diagnostic via BUS	per module	per module and channel	
Monitoring - under voltage	yes		
Monitoring - no voltage	yes		
Short circuit and overload	yes		
<b>General data</b>			
Protection	IP20		
Temperature range	0...+55 °C (storage temperature -20...+70 °C)		
Mounting method	DIN rail mountable (EN 60725)		
<b>Dimension drawing</b>			



**Notes**

## IMPACT20

**MURR**  
ELEKTRONIK  
*stay connected*

Labeling accessories	Art.No.
<b>Label sheet</b> Quantity: 40 pcs.	56113
 <b>Label plates 20 x 8 mm</b> (20 pieces per plate)	55318
Connection accessories	Art.No.
 <b>Potential terminal block</b> brown/brown/blue/blue blue/yellow blue/yellow/brown/blue	56109 56110 56111