



IMPACT67 COMPACT I/O MODULES FOR THE FIELD

- Application oriented
- Easy to Install
- Cost-effective

ECONOMIC DECENTRALIZATION

Impact67 is the perfect fieldbus solution for basic applications that need to be cost-effective. The modules in this series are available with different bus protocols, they feature pluggable connections, diagnostics and IP67 tested seals.

This makes Impact67 the perfect choice for an electrical engineer whose objective is to minimize costs while maintaining digital inputs and outputs under ordinary conditions.

FOCUSED ON ESSENTIALS

- Single channel diagnostic via LED – don't look for errors, find them
- Group diagnostics via the bus – easy remote diagnostics
- Port-related shut off – only the affected port is shut off



EtherNet/IP

EtherCAT

CANopen

DeviceNet

IO-Link

Impact67 I/O Modules

 <p>Impact67-P • Digital I/Os</p>  <p>Page 4.6.1</p>	 <p>Impact67-PN • Multifunctional I/Os • Digital I/Os • IO-Link</p>  <p>IO-Link</p> <p>Page 4.6.2</p>
 <p>Impact67-E • Multifunctional I/Os • Digital I/Os • IO-Link</p>  <p>IO-Link</p> <p>Page 4.6.5</p>	 <p>Impact67-EC • Digital I/Os</p>  <p>Page 4.6.8</p>
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IMPACT67

Basic diagnostic



Impact67-P

DI16

Impact67-P

DI8/DO8 - 2 A

Impact67-P

DO8 - 2 A

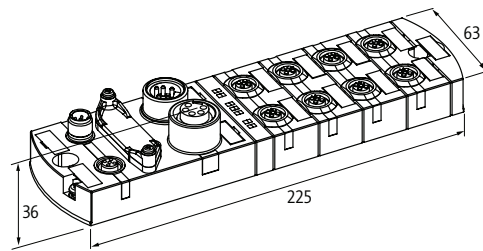
Impact67-P

DO16 - 0.5 A



Approvals:

Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55345			
DI8/DO8 - 2 A		55346		
DO8 - 2 A			55347	
DO16 - 0.5 A				55348
Connections				
Fieldbus	PROFIBUS 12 Mbit/s; M12, B-coded			
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A			
I/O ports	M12, 5-pole, A-coded			
PROFIBUS				
Addressing	Rotary switch 3...99			
Input				
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected	-		
Type	for 3-wire sensors or mechanical switches, PNP		-	
Output				
Switching current per output	-	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)	
General data				
Protection	IP67			
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range			
Temperature range	0...+55 °C (storage temperature -25...+70 °C)			
Dimension drawing				



Notes

IMPACT67

Basic diagnostic



Impact67-PN
DI16

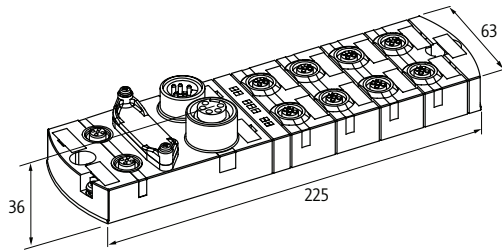
Impact67-PN
DI8/DO8 - 2 A

Impact67-PN
DO8 - 2 A

Impact67-PN
DO16 - 0.5 A



Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55091			
DI8/DO8 - 2 A		55092		
DO8 - 2 A			55093	
DO16 - 0.5 A				55094
Connections				
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded			
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A			
I/O ports	M12, 5-pole, A-coded			
PROFINET				
Addressing	DCP			
Input				
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected		-	
Type	for 3-wire sensors or mechanical switches, PNP		-	
Output				
Switching current per output	-	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)	
General data				
Protection	IP67			
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range			
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)			
Dimension drawing				



Notes

Expanded diagnostic

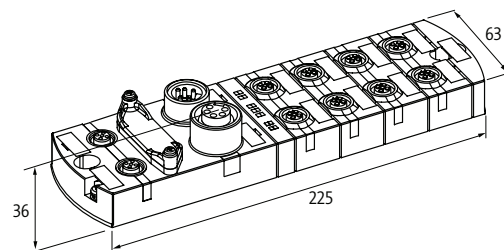


Impact67-PN

DIO16 IRT



Order Data	Art-No.
DIO16 IRT	55130
Connections	
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A
I/O ports	M12, 5-pole, A-coded
PROFINET	
FSU (Fast-Start-Up)	max. 500 ms
Shared Device/Input	yes, for 2 controls
Profinet Netload Class	III
Specification	V2.3, Conformance Class C (IRT)
Addressing	DCP
Input	
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected
Type	for 3-wire sensors or mechanical switches, PNP
Output	
Actuator supply UA	24 V DC (EN 61131-2), max. 9 A
Switching current per output	max. 1.6 A (short-circuit and overload protected)
Lamp load	10 W
Parameterization	
PIN 4	Input/Output (port X0...X7)
PIN 2	Input/Output (port X0...X7)
General data	
Protection	IP67
Mounting method	2-hole screw mounting
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)
Dimension drawing	



Notes

IMPACT67

Expanded diagnostic



Impact67-PN IO-Link

DIO14 IOL2 IRT

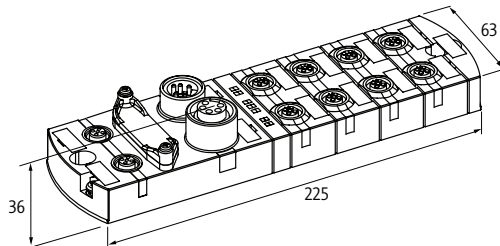


Impact67-PN IO-Link

DIO12 IOL4 IRT



Order Data	Art-No.	Art-No.
DIO14 IOL2 IRT	55131	
DIO12 IOL4 IRT		55132
Connections		
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded	
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A	
I/O ports	M12, 5-pole, A-coded	
PROFINET		
FSU (Fast-Start-Up)	max. 500 ms	
Shared Device/Input	yes, for 2 controls	
Profinet Netload Class	III	
Specification	V2.3, Conformance Class C (IRT)	
Addressing	DCP	
IO-Link		
IO-Link	2 × Master	4 × Master
Operating modes	COM1; COM2; COM3 (automatic)	
Transfer parameters	32 Byte (via IO-Link Port)	
Port class	Class B (not galvanically separated)	Class A + B (not galvanically separated)
Specification	IO-Link Master V1.12	
Input		
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected	
Type	for 3-wire sensors or mechanical switches, PNP, IO-Link Devices	
Output		
Actuator supply UA	24 V DC (EN 61131-2), max. 9 A	
Switching current per output	max. 1.6 A (short-circuit and overload protected)	
Lamp load	10 W	
Parameterization		
PIN 4	Input (port X0...X7); Output (port X0...X4, X6); IO-Link Master (port X5, X7)	Input (port X0...X7); Output (port X0, X2, X4, X6); IO-Link Master (port X1, X3, X5, X7)
PIN 2	Input/Output (port X0...X7); U-Actuator IO-Link Class B (port X5, X7)	
General data		
Protection	IP67	
Mounting method	2-hole screw mounting	2 hole screw mounting, compatible with I/O modules of MVK model range
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)	
Dimension drawing		



Notes

IMPACT67

Basic diagnostic

EtherNet/IP

Impact67-E

DI16

Impact67-E

DI8/DO8 - 2 A

Impact67-E

DO8 - 2 A

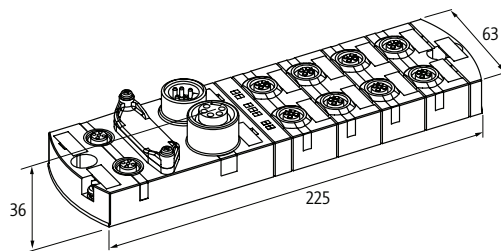
Impact67-E

DO16 - 0.5 A



Approvals:  

Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55085			
DI8/DO8 - 2 A		55086		
DO8 - 2 A			55087	
DO16 - 0.5 A				55088
Connections				
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded			
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A			
I/O ports	M12, 5-pole, A-coded			
EtherNet/IP				
Addressing	DHCP, BOOTP or IP address by rotary switch			
Input				
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected		-	
Type	for 3-wire sensors or mechanical switches, PNP		-	
Output				
Switching current per output	-	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)	
General data				
Protection	IP67			
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range			
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)		0...+55 °C (storage temperature -25...+70 °C)	
Dimension drawing				



Notes

IMPACT67

Expanded diagnostic

EtherNet/IP™

Approvals:  

Impact67-E

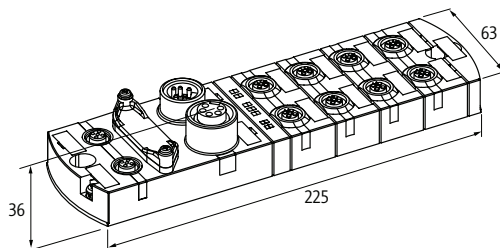
DIO8 (DIO8)
DLR (Device Level Ring)

Impact67-E

DIO16
DLR (Device Level Ring)



Order Data	Art-No.	Art-No.
DIO8 (DIO8)	55089	
DIO16		55142
Connections		
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded	
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A	7/8", 4-pole, 2 × max. 9 A
I/O ports	M12, 5-pole, A-coded	
EtherNet/IP		
Addressing	DHCP, BOOTP or IP address by rotary switch	DHCP, BOOTP or IP address by DIP switch
DLR (Device Level Ring)	yes	
QC (Quick Connect)	–	max. 360 ms
Multiple connections	–	yes
CIP Sync	–	yes
Composite Test Revision	–	CT14
Input		
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected	
Type	for 3-wire sensors or mechanical switches, PNP	
Output		
Actuator supply UA	24 V DC (EN 61131-2), max. 9 A	
Switching current per output	max. 1.6 A (short-circuit and overload protected)	
Lamp load	10 W	
Parameterization		
PIN 4	Input/Output (port X0...X7)	
PIN 2	Input/Output (port X0...X7)	
General data		
Protection	IP67	
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range	2-hole screw mounting
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)	-25...+55 °C (storage temperature -40...+85 °C)
Dimension drawing		



Notes

IMPACT67

Expanded diagnostic

EtherNet/IP  IO-Link

Approvals:  

Impact67-E IO-Link

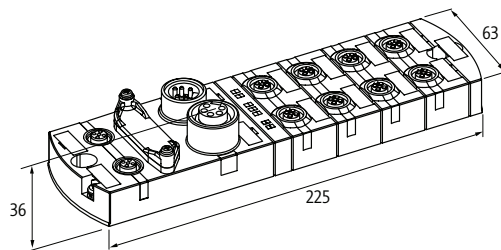
DIO14 IOL2
DLR (Device Level Ring)

Impact67-E IO-Link

DIO12 IOL4
DLR (Device Level Ring)



Order Data	Art-No.	Art-No.
DIO14 IOL2	55143	
DIO12 IOL4		55144
Connections		
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded	
Sensor-system/actuator supply	7/8", 4-pole, 2 × max. 9 A	
I/O ports	M12, 5-pole, A-coded	
EtherNet/IP		
Addressing	DHCP, BOOTP or IP address by DIP switch	
QC (Quick Connect)	max. 360 ms	
Multiple connections	yes	
CIP Sync	yes	
Composite Test Revision	CT14	
DLR (Device Level Ring)	yes	
IO-Link		
IO-Link	2 × Master	4 × Master
Operating modes	COM1; COM2; COM3 (automatic)	
Transfer parameters	32 Byte (via IO-Link Port)	
Port class	Class B (not galvanically separated)	
Specification	IO-Link Master V1.12	
Input		
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected	
Type	for 3-wire sensors or mechanical switches, PNP, IO-Link Devices	
Output		
Actuator supply UA	24 V DC (EN 61131-2), max. 9 A	
Switching current per output	max. 1.6 A (short-circuit and overload protected)	
Lamp load	10 W	
Parameterization		
PIN 4	Input/Output (port X0...X7); IO-Link Master (port X6, X7)	Input/Output (port X0...X7); IO-Link Master (port X4...X7)
PIN 2	Input/Output (port X0...X7); U-Actuator IO-Link Class B (port X6, X7)	Input/Output (port X0...X7); U-Actuator IO-Link Class B (port X4...X7)
General data		
Protection	IP67	
Mounting method	2-hole screw mounting	
Temperature range	-25...+55 °C (storage temperature -40...+85 °C)	
Dimension drawing		



Notes

IMPACT67

Basic diagnostic

EtherCAT

Approvals:  

Impact67-EC
DI16

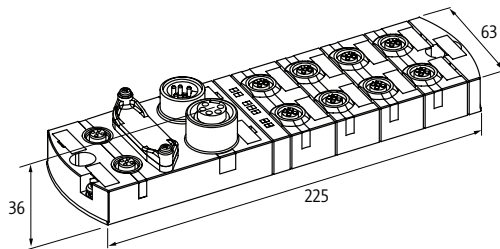
Impact67-EC
DI8/DO8 - 2 A

Impact67-EC
DO8 - 2 A

Impact67-EC
DO16 - 0.5 A



Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55081			
DI8/DO8 - 2 A		55082		
DO8 - 2 A			55083	
DO16 - 0.5 A				55084
Connections				
Fieldbus	Ethernet 10/100 Mbit/s; M12, D-coded			
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A			
I/O ports	M12, 5-pole, A-coded			
EtherCAT				
Addressing	automatic or Device ID by rotary switch			
Input				
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected		-	
Type	for 3-wire sensors or mechanical switches, PNP		-	
Output				
Switching current per output	-	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)	
General data				
Protection	IP67			
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range			
Temperature range	-25...+55 °C (storage temperature -25...+70 °C)		0...+55 °C (storage temperature -25...+70 °C)	
Dimension drawing				



Notes

IMPACT67

Basic diagnostic

CANopen

Impact67-C

DI16

Impact67-C

DI8/DO8 - 2 A

Impact67-C

DO8 - 2 A

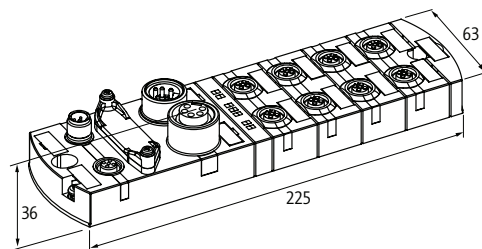
Impact67-C

DO16 - 0.5 A



Approvals:  

Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55075			
DI8/DO8 - 2 A		55076		
DO8 - 2 A			55077	
DO16 - 0.5 A				55078
Connections				
Fieldbus	CAN 1 Mbit/s; M12, A-coded			
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A			
I/O ports	M12, 5-pole, A-coded			
CANopen				
Addressing	Rotary switch 1...99			
Input				
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected		-	
Type	for 3-wire sensors or mechanical switches, PNP	-		
Output				
Switching current per output	-	max. 2 A (short-circuit and overload protected)	max. 0.5 A (short-circuit and overload protected)	
General data				
Protection	IP67			
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range			
Temperature range	-25...+70 °C (storage temperature -25...+70 °C)			
Dimension drawing				



Notes

IMPACT67

Basic diagnostic

DeviceNet

Approvals:  

Impact67-DN
DI16

Impact67-DN
DI8/DO8 - 2 A

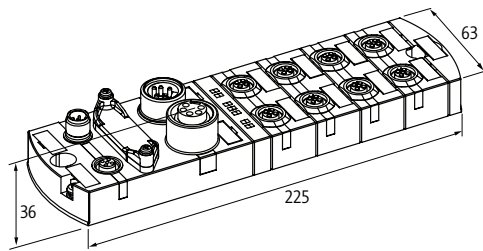
Impact67-DN
DO8 - 2 A

Impact67-DN
DO16 - 0.5 A






Order Data	Art-No.	Art-No.	Art-No.	Art-No.
DI16	55071			
DI8/DO8 - 2 A		55072		
DO8 - 2 A			55073	
DO16 - 0.5 A				55074

Connections	
Fieldbus	DN 125 kbit/s; 250 kbit/s; 500 kbit/s; M12, A-coded
Sensor-system/actuator supply	7/8", 5-pole, 2 × max. 9 A
I/O ports	M12, 5-pole, A-coded
DeviceNet	
Addressing	Rotary switch 0...63
Input	
Sensor supply US	24 V DC (EN 61131-2), max. 200 mA (M12 female), short-circuit and overload protected
Type	for 3-wire sensors or mechanical switches, PNP
Output	
Switching current per output	max. 2 A (short-circuit and overload protected) / max. 0.5 A (short-circuit and overload protected)
General data	
Protection	IP67
Mounting method	2 hole screw mounting, compatible with I/O modules of MVK model range
Temperature range	-25...+70 °C (storage temperature -25...+70 °C)
Dimension drawing	



Notes

Accessories			Art-No.
	<p>Label plates 20 × 8 mm</p>	<p>(20 pieces per plate)</p>	<p>55318</p>
	<p>Screw plug M12 × 1 mm (for female) Plastic, hex without gasket</p>	<p>Quantity: 10 pcs.</p>	<p>58627</p>
	<p>Screw plug 7/8" (for male) Plastic</p>		<p>55385</p>