

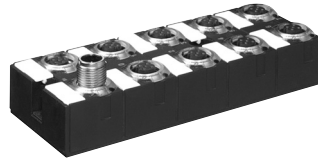
Expansion modules

Digital inputs
Digital outputs

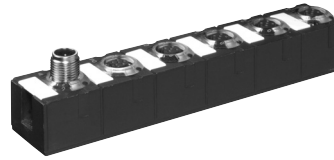
Multifunctional
Parameters free definable

Protection IP67

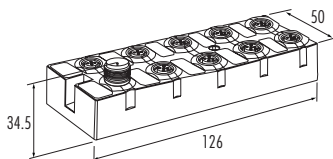
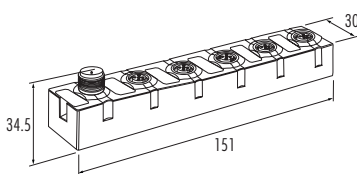
Cube67 DI016 E 8xM12



Cube67 DI08 E 4xM12



Cube67 DI08 E 4xM12 1A

Ordering data	Art.-No.	Art.-No.	Art.-No.
	approvals	approvals	approvals
	UL	UL	filed for UL
	56601	56611	56631
Internal communication			
Module supply	via internal system connection		
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)		
Current usage	approx. 50 mA		
Configuration			
PIN 2	input/output/diagnostic		
PIN 4	input/output		
Inputs			
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female		
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible		
Status indicator	yellow LED per port		
Input filter	1 ms		
Diagnostic input			
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female		
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible		
Status indicator	red LED per port		
Function	24 V = high = OK. (LED off); 0 V = low = error (LED red)		
Input filter	1 ms		
Outputs			
Actuator supply	24 V DC (18...30.2 V), to EN61131-2 via system connection (total max. 4 A)		
Switching current per output	0.5 A short-circuit and overload protected		1.0 A short-circuit and overload protected
Lamp load	10 W		
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz		
Status indicator	output activated LED yellow; output short-circuit LED red; fault connection LED red		
Diagnostic			
Under voltage sensor/system	U _S < 18 V (red)		
Under voltage actuator	U _A < 18 V (red) (if parameterized as output)		
Communication to bus module	U _S blinking green if no data exchange		
Actuator short-circuit	PIN 2 and/or PIN 4 red LED per output		
Sensor short-circuit	PIN 2 and/or PIN 4 red LED per input		
Diagnostic to DESINA® (PIN 2)	PIN 2 diagnostic with red LED per M12 port		
Actuator warning	PIN 2 and/or PIN 4 red LED per output		
General data			
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)		
Mounting method	4-hole screw mounting	2-hole screw mounting	
Dimension H x W x D	34.5 x 126 x 50 mm	34.5 x 151 x 30 mm	
Dimension drawing			
			
Notes	Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.25. Connection cables can be found in chapter 1.4... All housings are potted.		

Expansion modules

Digital inputs
Digital outputs

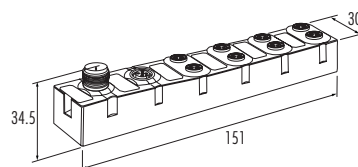
Multifunctional
Parameters free definable

Protection IP67

Cube67 DI08 E 8xM8



Ordering data		Art.-No.
	approvals	
	UL	56621
Internal communication		
Module supply	via internal system connection	
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)	
Current usage	approx. 30 mA	
Configuration		
PIN 2	—	
PIN 4	input/output	
Inputs		
Sensor supply	≤ 200 mA per M8 female	
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible	
Status indicator	yellow LED per input	
Input filter	1 ms	
Outputs		
Actuator supply	24 V DC (18...30.2 V), to EN61131-2 via system connection (total max. 4 A)	
Switching current per output	0.5 A short-circuit and overload protected	
Lamp load	10 W	
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz	
Status indicator	output activated yellow LED; output short-circuit red LED	
Diagnostic		
Under voltage sensor/system	U _S < 18 V (red)	
Under voltage actuator	U _A < 18 V (red) (if parameterized as output)	
Communication to bus module	U _S blinking green if no data exchange	
Actuator short-circuit	PIN 4 red LED per output	
Sensor short-circuit	PIN 4 red LED per input	
Diagnostic to DESINA® (PIN 2)	—	
Actuator warning	PIN 4 red LED per output	
General data		
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)	
Mounting method	2-hole screw mounting	
Dimension	H x W x D	34.5 x 151 x 30 mm
Dimension drawing		



Notes

Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.25. Connection cables can be found in chapter 1.4...
All housings are potted.

Cube67 - Modular I/O station



Expansion modules

Digital inputs
Digital outputs

Multifunctional
Parameters free definable

Protection IP67

Cube67 DI08 E Cable



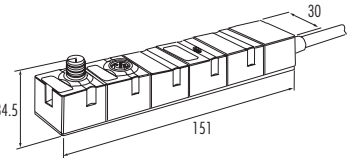
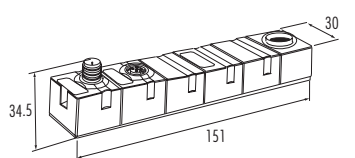
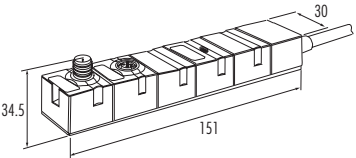
Cube67 DI08 E M16 0.5A



Cube67 DI08 E Cable M12 ID



Ordering data	Art.-No.		Art.-No.
	approvals	approvals	approvals
	filed for UL	filed for UL	filed for UL
	56661	56663	5666500
Internal communication			
Module supply	via internal system connection		
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)		
Current usage	approx. 30 mA		
Configuration			
I/O channels	input/output		suitable for EUCHNER type CIT 3PL1M30-STR
Inputs			
Sensor supply	1.6 A	200 mA	suitable for EUCHNER type CIT 3PL1M30-STR
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible		suitable for EUCHNER type CIT 3PL1M30-STR
Input filter	1 ms		
Outputs			
Actuator supply	24 V DC (18...30.2 V), to EN61131-2		suitable for EUCHNER type CIT 3PL1M30-STR
Switching current per output	max. 70 mA	0.5 A short-circuit and overload protected	suitable for EUCHNER type CIT 3PL1M30-STR
Total current for all outputs	total max. 4 A (internal system connection)		suitable for EUCHNER type CIT 3PL1M30-STR
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz		suitable for EUCHNER type CIT 3PL1M30-STR
Status indicator	combined LED; output short-circuit red LED, fault connection red LED		
Diagnostic			
Under voltage sensor/system	U _S < 18 V (red)		
Under voltage actuator	U _A < 18 V (red) (if parameterized as output)		
Communication to bus module	U _S blinking green if no data exchange		
Actuator short-circuit	combined red LED		
Sensor short-circuit	combined red LED		
Connection cable			
Cable construction	10 x 0.34 mm ² PVC OBLIY-CY	—	PUR-OB
Length	0.5 m	—	0.5 m
Connector	single wires	—	M12 female 8-pole
General data			
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)		
Mounting method	2-hole screw mounting		
Dimension	H x W x D	34.5 x 151 x 30 mm	
Dimension drawing			



Notes

Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.25. Connection cables can be found in chapter 1.4...
All housings are potted.

Expansion modules

Digital outputs

Protection IP67

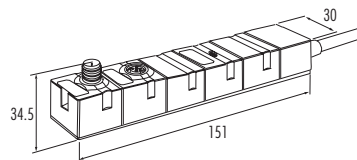
Cube67 D08 E Valve

Cube67 D016 E Valve

Cube67 D032 E Valve



Ordering data	Art.-No.	Art.-No.	Art.-No.
	label/approvals	label/approvals	label/approvals
With open ended wires	Cube67 D08 E Valve/* 56655	Cube67 D016 E Valve/UL 56651	Cube67 D032 E Valve/* 56656
With pre-wired multipol connector	Cube67 D08 E Valve CPV/* 5665500	Cube67 D016 E Valve CPV/* 5665100	Cube67 D032 E Valve VM10/* 5665600
	Cube67 D08 E Valve CPV (9)/* 5665501	Cube67 D016 E Valve V/* 5665101	Cube67 D032 E MPA/* 5665601
		Cube67 D016 E Valve V20/22/* 5665110	Cube67 D032 E HF03/* 5665602
		Cube67 D016 E Valve VM10/* 5665111	
		Cube67 D016 E Valve V20/22B/* 5665112	
Internal communication			
Module supply	via internal system connection		
Status indicator	U _s : sensor supply and internal supply voltage (green = OK.); U _k : actuator supply (green = OK.)		
Current usage	approx. 30 mA		
Outputs			
Actuator supply	24 V DC (18...30.2 V), to EN61131-2, total max. 4 A (internal system connection)		
Switching current per output	max. 70 mA	0.5 A short-circuit and overload protected	
Lamp load	1.5 W	10 W	
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz		
Status indicator	combined LED; output short-circuit red LED, wire-break red LED		
Diagnostic			
Under voltage system	U _s < 18 V (red)		
Under voltage actuator	U _k < 18 V (red)		
Communication to bus module	U _s blinking green if no data exchange		
Actuator short-circuit	combined red LED		
Connection cable			
Cable construction	10 x 0.34 mm² PUR-OB	18 x 0.25 mm² PVC	36 x 0.14 mm² PVC
Length	0.5 m	0.5 m	0.5 m
General data			
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)		
Mounting method	2-hole screw mounting		
Dimension	H x W x D	34.5 x 151 x 30 mm	
Dimension drawing			



Notes

Accessories, terminators and blind plugs see page 2.1.24. Connection cables can be found in chapter 1.4...
All housings are potted. *Approvals for UL is filed.

Function modules

Logic module

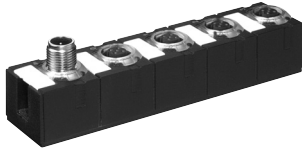
Counter module with process preparation

Protection IP67

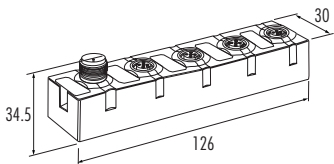
Cube67 Logic E 4xM12



Cube67 CNT 2 C 4xM12



Ordering data	Art.-No.	Art.-No.
approvals		approvals
filed for UL	56771	filed for UL
56750		
Internal communication		
Module supply	via internal system connection	
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)	
Current usage	approx. 30 mA	
Inputs		
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female	
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible	
Status indicator	yellow LED per input	
Input filter	1 ms	
Logic module		
Inputs	6	—
Outputs	2	—
Logical functions	AND/NOR; AND; XOR parameterized	—
Counter		
Counter frequency	—	max. 300 kHz
Counter input	—	to EN61131-2
Count depth	—	32 Bit (31 Bit + sign)
Outputs		
Actuator supply	24 V DC (18...30.2 V), to EN61131-2, total max. 4 A (internal system connection)	
Switching current per output	0.5 A short-circuit and overload protected	1.6 A short-circuit and overload protected
Lamp load	10 W	30 W
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz	
Status indicator	output activated yellow LED; output short-circuit red LED, fault connection red LED red	
Diagnostic		
Under voltage sensor/system	U _S < 18 V (red)	
Under voltage actuator	U _A < 18 V (red)	
Communication to bus module	U _S blinking green if no data exchange	
Actuator short-circuit	PIN 2 and/or PIN 4 red LED per output	
Sensor short-circuit	PIN 2 and/or PIN 4 red LED per input	
Actuator warning	PIN 2 and/or PIN 4 red LED per output	
General data		
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)	
Mounting method	2-hole screw mounting	
Dimension	H x W x D	34.5 x 126 x 30 mm
Dimension drawing		



Notes

Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.26. Connection cables can be found in chapter 1.4... All housings are potted.

Function modules

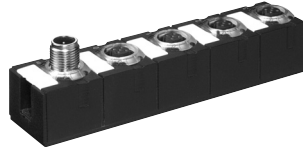
Digital inputs
Digital outputs

Multifunctional
Parameters free definable

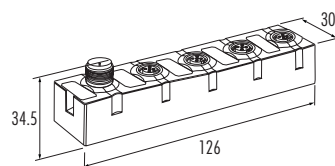
Serial interface

Protection IP67

Cube67 DIO4 RS485 E 3xM12



Ordering data	Art.-No.
approvals	
filed for UL	56760
Internal communication	
Module supply	via internal system connection
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)
Current usage	approx. 30 mA
Configuration	
PIN 2	input/output/diagnostic
PIN 4	input/output
Inputs	
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible
Status indicator	yellow LED per input
Input filter	1 ms
Outputs	
Actuator supply	24 V DC (18...30.2 V), to EN61131-2, total max. 4 A (internal system connection)
Switching current per output	0.5 A short-circuit and overload protected
Lamp load	10 W
Max. switching frequency	resistive load 50 Hz, inductive load 5 Hz
Status indicator	output activated yellow LED; output short-circuit red LED, fault connection red LED
RS485	
Type	RS485, galvanically separated, M12 female, 5-pole, difference signal
Transmission parameters	9600 Baud, half duplex, 8 bit, even parity, 1 Stopbit
Diagnostic	
Under voltage sensor	U _S < 18 V (red)
Under voltage actuator	U _A < 18 V (red) (if parameterized as output)
Communication to bus module	U _S blinking green if no data exchange
Actuator short-circuit	PIN 2 and/or PIN 4 red LED per output
Sensor short-circuit	PIN 2 and/or PIN 4 red LED per input
Diagnostic to DESINA® (PIN 2)	PIN 2 diagnostic with red LED per M12 port
Actuator warning	PIN 2 and/or PIN 4 red LED per output
General data	
Temperature range	0...+55 °C (storage temperature -20...+75 °C)
Mounting method	2-hole screw mounting
Dimension	H x W x D
	34.5 x 126 x 30 mm
Dimension drawing	



Notes

Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.25 and 2.1.26. Connection cables can be found in chapter 1.4...
S7 function module for SEW MOVIMOT® via www.murrelektronik.com. All housings are potted.

Terminal modules

Digital inputs
Digital outputs

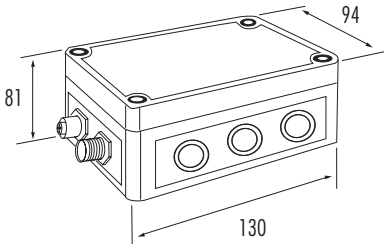
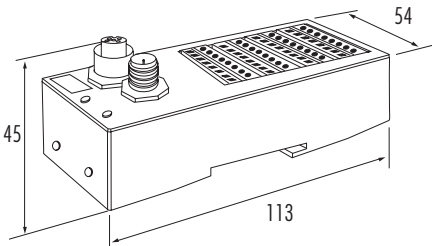
Parameters free definable

Cube67 DI08/DI8 E TB Box



Cube67 DI08/DI8 E TB Rail



Ordering data		Art.-No.	Art.-No.
		approvals	approvals
		filed for UL	filed for UL
With additional common terminals		56681	56691
		filed for UL	
Internal communication			
Module supply		via internal system connection	
Status indicator		U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)	
Current usage		approx. 30 mA	
Configuration			
Terminal row X 0	(8 channels)	input	
Terminal row X 1	(8 channels)	input/output	
Inputs			
Sensor supply		24 V DC (18...30.2 V), to EN61131-2, 8 x ≤ 200 mA	
Type		for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible	
Status indicator		yellow LED per input	
Input filter		1 ms	
Outputs			
Actuator supply		24 V DC (18...30.2 V), to EN61131-2, total max. 4 A (internal system connection)	
Switching current per output		0.5 A short-circuit and overload protected	
Lamp load		10 W	
Max. switching frequency		resistive load 50 Hz, inductive load 5 Hz	
Status indicator		output activated LED yellow; output short-circuit LED red, fault connection LED red	
Diagnostic			
Under voltage sensor/system		U _S < 18 V (red)	
Under voltage actuator		U _A < 18 V (red) (if parameterized as output)	
Communication to bus module		U _S blinking green if no data exchange	
Actuator short-circuit		LED (red) per output	
Sensor short-circuit		PIN 2 and/or PIN 4 red LED per input	
Diagnostic to DESINA®		diagnostic with red LED per terminal (X 0)	
Actuator warning		red LED per output	
General data			
Protection		IP66	IP20
Temperature range		0...+ 55 °C (storage temperature - 20...+ 75 °C)	
Mounting method		screw mounting	DIN-rail mounting EN60715
Dimension	H x W x D	81 x 130 x 94 mm	45 x 113 x 54 mm
Dimension drawing			
			
Notes			
		Accessories, terminators and blind plugs see page 2.1.24. Connection diagrams and contact layout see page 2.1.27 All housings are potted.	

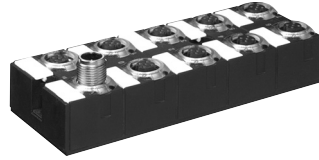
Cube67 - Modular I/O station

Expansion modules

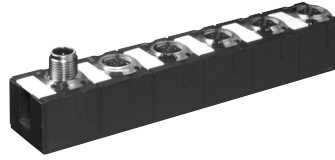
Digital inputs

Protection IP67

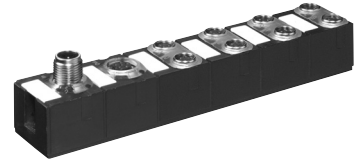
Cube67 DI16 E 8xM12



Cube67 DI8 E 4xM12



Cube67 DI8 E 8xM8



Ordering data	Art.-No.	Art.-No.	Art.-No.
	approvals	approvals	approvals
	UL	UL	UL
	56603	56613	56623
Internal communication			
Module supply	via internal system connection		
Status indicator	U _S : sensor supply and internal supply voltage (green = OK.); U _A : actuator supply (green = OK.)		
Current usage	approx. 50 mA		approx. 30 mA
Configuration			
PIN 2	input/diagnostic		—
PIN 4	input		
Inputs			
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M8/M12 female		
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible		
Status indicator	yellow LED per input		
Input filter	1 ms		
Diagnostic input			
Sensor supply	24 V DC (18...30.2 V), to EN61131-2, ≤ 200 mA per M12 female		—
Type	for 3-wire sensors or mechanical switches, PNP, EN61131-2 compatible		—
Status indicator	red LED per port		—
Function	24 V DC = high = OK. (LED off); 0 V DC = low = error (LED red)		—
Input filter	1 ms		—
Diagnostic			
Under voltage sensor	U _S < 18 V (red)		
Communication to bus module	U _S blinking green if no data exchange		
Sensor short-circuit	PIN 2 and PIN 4 red LED per M12 port		PIN 4 red LED per input
Diagnostic to DESINA® (PIN 2)	PIN 2 diagnostic with red LED per M12 port		—
General data			
Temperature range	0...+ 55 °C (storage temperature - 20...+ 75 °C)		
Mounting method	4-hole screw mounting		2-hole screw mounting
Dimension	H x W x D	34.5 x 126 x 50 mm	34.5 x 151 x 30 mm
Dimension drawing			
Notes	Accessories, terminators and blind plugs see page 2.1.24. Contact layout see page 2.1.25. Connection cables can be found in chapter 1.4... All housings are potted.		