

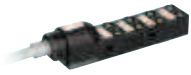
M8 DISTRIBUTION SYSTEMS EXACT8

- Saves space
- Versatile
- Application oriented

EXACT8 – THE NEW GENERATION OF MURRELEKTRONIK'S M8 DISTRIBUTION BOXES

- Small dimensions (30 mm width)
- PUR/PVC cable for flexible and fixed assembly
- High-quality, halogen-free PUR cable suitable for C-tracks, UL/CSA approved
- Standard or side mounting for limited space
- Quick and easy replacement of connection cables

For Sensors and Actuators – Molded Homerun Cables or Connection Caps



Exact8

- 4-, 6-, 8-, 10-way
- PUR or PUR/PVC homerun cable

Page 4.11.1



Exact8 basic modules

- 4-, 6-, 8-, 10-way

Page 4.11.5



Exact8 connection caps

- Pre-wired
- PUR or PUR/PVC homerun cable

Page 4.11.8



Exact8 set

- 4-, 6-, 8-, 10-way
- Field-wireable

Page 4.11.11

For Sensors – with M12 Connection



Exact8

- 4-, 6-, 8-, 10-way
- With 8- or 12-pole M12 connection

Page 4.11.12

M8 DISTRIBUTION SYSTEMS

- For sensors and actuators
- with molded homerun cable
- Inline face or side mounting

Exact8
4-way



Exact8
6-way



Exact8
8-way



Exact8
10-way



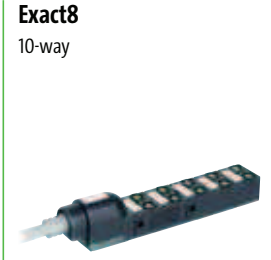
Approvals: UL US Listed


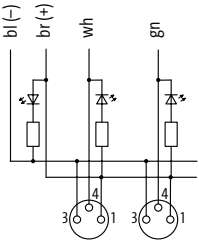
1 Form	84 010	86 010	88 010	80 010
Type	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole
Contact layout	M8-Females 3-pole 			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR/PVC	337 – 4 × 0.34 + 2 × 0.75 mm ²	350 – 6 × 0.34 + 2 × 0.75 mm ²	357 – 8 × 0.34 + 2 × 0.75 mm ²	385 – 10 × 0.34 + 2 × 0.75 mm ²
PUR (UL/CSA), robots/C-tracks	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²
3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Operating voltage	24 V DC			
Total current	max. 8 A			
Protection	IP65/IP67			
Temperature range	-20...+80 °C, depending on cable quality			
Contact Layout				
LED display	LED (green): Power / LED (yellow): (S1)			
PIN 1	(+)			
PIN 3	(-)			
PIN 4	(NO)/(S1)			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-between; align-items: center;"> 8 0 0 0 – – – </div>			
	1	2	3	
	Form	Cable Type	Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- with molded homerun cable
- Inline face or side mounting



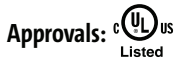
1 Form	84011	86011	88011	80011																		
Type	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole																		
Contact layout	M8-Females 3-pole   for 1 signal per port																					
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Notes																						

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– with molded homerun cable

– Inline face or side mounting



Exact8

4-way



Exact8

6-way



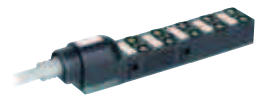
Exact8

8-way



Exact8

10-way

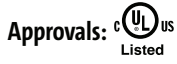


1 Form		84110	86110	88110	80110
Type		PNP, 4-pole	PNP, 4-pole	PNP, 4-pole	PNP, 4-pole
Contact layout		<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2)</p> <p>3 (-) 1 (+)</p> <p>for 2 signals per port</p>			
2 Cable Type		Jacket Color – No./diameter of wires			
		gray	gray	gray	gray
PUR/PVC		358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²	412 – 20 × 0.34 + 2 × 0.75 mm ²
PUR (UL/CSA), robots/C-tracks		360 – 8 × 0.34 + 2 × 0.75 mm ²	389 – 12 × 0.34 + 2 × 0.75 mm ²	396 – 16 × 0.34 + 2 × 0.75 mm ²	411 – 20 × 0.34 + 2 × 0.75 mm ²
3 Cable Length					
3.0 m		0300			
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15.0 m		1500			
Technical Data					
Operating voltage		24 V DC			
Total current		max. 8 A			
Protection		IP65/IP67			
Temperature range		-20...+80 °C, depending on cable quality			
Contact Layout					
LED display		LED (green): Power / LED (yellow): (S1) / LED (white): Signal (S2)			
PIN 1		(+) / (S1)			
PIN 2		(NC)/(S2)			
PIN 3		(-) / (S1)			
PIN 4		(NO)/(S1)			
Article No.					
The composition of your article number is explained on page 3.1.i		8 0 0 0	-	-	-
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M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- with molded homerun cable
- Inline face or side mounting



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Type	NPN, 4-pole	NPN, 4-pole	NPN, 4-pole	NPN, 4-pole																		
Contact layout	M8-Females 4-pole 4 (S1) 2 (S2) 3 (-) 1 (+) 																					
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M8 DISTRIBUTION SYSTEMS

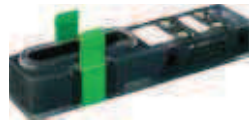
For sensors and actuators

– Base modules

– Inline face or side mounting

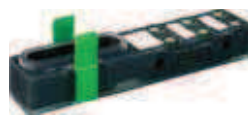
Exact8

4-way



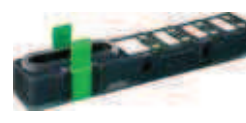
Exact8

6-way



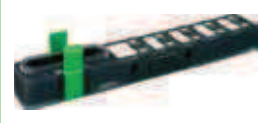
Exact8

8-way



Exact8

10-way



Approvals: UL_{us}
Listed

1 Form	84000	86000	88000	80000
Type	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole	PNP, 3-pole
Contact layout	<p>M8-Females 3-pole</p> <p>4 (N/O) 3 (-) 1 (+)</p> <p>for 1 signal per port</p>			
Technical Data				
Operating voltage	24 V DC			
Operating current per contact	max. 2 A			
Total current	max. 8 A			
Protection	IP65/IP67			
Temperature range	-20...+70 °C, depending on cable quality			
Contact Layout				
LED display	LED (green): Power / LED (yellow): (S1)			
PIN 1	(+)			
PIN 3	(-)			
PIN 4	(NO)/(S1)			
Article No.				
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	1 Form			
Notes				

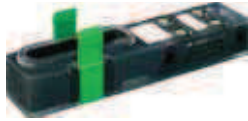
M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- Base modules
- Inline face or side mounting

Approvals:  Listed

Exact8
4-way



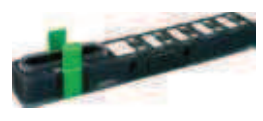
Exact8
6-way

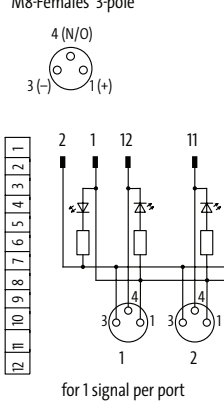


Exact8
8-way



Exact8
10-way



1 Form	84001	86001	88001	80001
Type	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole	NPN, 3-pole
Contact layout	<p>M8-Females 3-pole</p>  <p>for 1 signal per port</p>			
Technical Data				
Operating voltage	24 V DC			
Operating current per contact	max. 2 A			
Total current	max. 8 A			
Protection	IP65/IP67			
Temperature range	-20...+70 °C, depending on cable quality			
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Notes				

M8 Distribution Systems

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

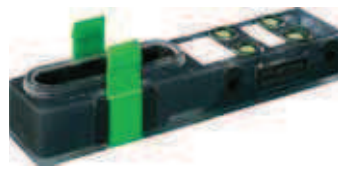
– Base modules

– Inline face or side mounting

Approvals: UL_{us}
Listed

Exact8

4-way



Exact8

6-way



Exact8

8-way



1 Form	84100	86100	88100
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Type	PNP, 4-pole	PNP, 4-pole	PNP, 4-pole
Contact layout	<p>M8 Females 4-pole</p> <p>4 (S1) 2 (S2)</p> <p>3 (-) 1 (+)</p> <p>for 2 signals per port</p>	<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2)</p> <p>3 (-) 1 (+)</p> <p>for 2 signals per port</p>	

Technical Data	
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Operating voltage	24 V DC
Operating current per contact	max. 2 A
Total current	max. 8 A
Protection	IP65/IP67
Temperature range	-20...+70 °C, depending on cable quality

Contact Layout	
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LED display	LED (green): Power / LED (yellow): (S1) / LED (white): Signal (S2)
PIN 1	(+)
PIN 2	(NC)/(S2)
PIN 3	(-)
PIN 4	(NO)/(S1)

Article No.	
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The composition of your article number is explained on page 3.1.i	8 0 0 0	-	-	0 0 0	-	0 0 0 0
	1 Form					

Notes	
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M8 DISTRIBUTION SYSTEMS

For sensors and actuators

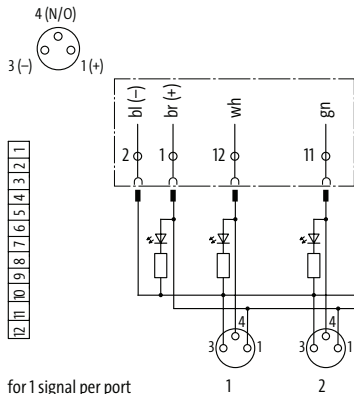
– Connection cap with homerun cable

Approvals:  Listed

Exact8

Connection cap short



1 Form	84049	86049	88049	80049
Type	for 4-way distribution box, 3-pole Spring clamp plug-in terminals	for 6-way distribution box, 3-pole Spring clamp plug-in terminals	for 8-way distribution box, 3-pole Spring clamp plug-in terminals	for 10-way distribution box, 3-pole Spring clamp plug-in terminals
Contact layout	<p>M8-Females 3-pole</p>  <p>for 1 signal per port</p>			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR/PVC	337 – 4 × 0.34 + 2 × 0.75 mm ²	350 – 6 × 0.34 + 2 × 0.75 mm ²	357 – 8 × 0.34 + 2 × 0.75 mm ²	385 – 10 × 0.34 + 2 × 0.75 mm ²
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3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Total current	max. 8 A			
Temperature range	-20...+80 °C, depending on cable quality			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - - </div>			
	1	2	3	
	Form	Cable Type	Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– Connection cap with homerun cable



Exact8

Connection cap short



Exact8

Connection cap long



1 Form	84149	86149	88149												
Type	for 4-way distribution box, 4-pole Spring clamp plug-in terminals	for 6-way distribution box, 4-pole Spring clamp plug-in terminals	for 8-way distribution box, 4-pole Spring clamp plug-in terminals												
Contact layout	<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2) 3 (-) 1 (+)</p> <p>for 2 signals per port 1 2</p>	<p>M8-Females 4-pole</p> <p>4 (S1) 2 (S2) 3 (-) 1 (+)</p> <p>for 2 signals per port 1 2</p>													
2 Cable Type	<p>Jacket Color – No./diameter of wires</p> <table border="1"> <thead> <tr> <th></th> <th>gray</th> <th>gray</th> <th>gray</th> </tr> </thead> <tbody> <tr> <td>PUR/PVC</td> <td>358 – 8 × 0.34 + 2 × 0.75 mm²</td> <td>386 – 12 × 0.34 + 2 × 0.75 mm²</td> <td>395 – 16 × 0.34 + 2 × 0.75 mm²</td> </tr> <tr> <td>PUR (UL/CSA), robots/C-tracks</td> <td>360 – 8 × 0.34 + 2 × 0.75 mm²</td> <td>389 – 12 × 0.34 + 2 × 0.75 mm²</td> <td>396 – 16 × 0.34 + 2 × 0.75 mm²</td> </tr> </tbody> </table>				gray	gray	gray	PUR/PVC	358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²	PUR (UL/CSA), robots/C-tracks	360 – 8 × 0.34 + 2 × 0.75 mm ²	389 – 12 × 0.34 + 2 × 0.75 mm ²	396 – 16 × 0.34 + 2 × 0.75 mm ²
	gray	gray	gray												
PUR/PVC	358 – 8 × 0.34 + 2 × 0.75 mm ²	386 – 12 × 0.34 + 2 × 0.75 mm ²	395 – 16 × 0.34 + 2 × 0.75 mm ²												
PUR (UL/CSA), robots/C-tracks	360 – 8 × 0.34 + 2 × 0.75 mm ²	389 – 12 × 0.34 + 2 × 0.75 mm ²	396 – 16 × 0.34 + 2 × 0.75 mm ²												
3 Cable Length	<table border="1"> <tbody> <tr> <td>3.0 m</td> <td>0300</td> </tr> <tr> <td>5.0 m</td> <td>0500</td> </tr> <tr> <td>10.0 m</td> <td>1000</td> </tr> <tr> <td>15.0 m</td> <td>1500</td> </tr> </tbody> </table>			3.0 m	0300	5.0 m	0500	10.0 m	1000	15.0 m	1500				
3.0 m	0300														
5.0 m	0500														
10.0 m	1000														
15.0 m	1500														
Technical Data	<p>Total current: max. 8 A</p> <p>Temperature range: -20...+80 °C, depending on cable quality</p>														
Article No.	<p>The composition of your article number is explained on page 3.1.i</p> <p>8 0 0 0 – – – – –</p>														
	1 Form	2 Cable Type	3 Cable Length												
Notes															

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

- Connection cap without homerun cable
- Field-wireable

Exact8

Connection cap short



Exact8

Connection cap long



1 Form

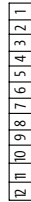
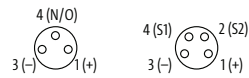
84949

80949

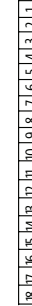
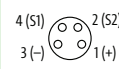
Type for 4-way distribution box, 3/4-pole, for 4...10-way, 3-pole Spring clamp plug-in terminals

Contact layout M8-Females 4-pole Spring clamp plug-in terminals

3-pole M8-Females 4-pole



M8-Females 4-pole



Technical Data

Total current	max. 8 A
Housing	Plastic, flame retardant
Temperature range	-20...+80 °C

Article No.

The composition of your article number is explained on page 3.1.i

8 0 0 0

- - - - -

0 0 0

0 0 0 0

1 Form

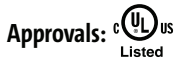
Notes

M8 DISTRIBUTION SYSTEMS

For sensors and actuators

– Sets (basic module and cap)

– Inline face or side mounting



Exact8
4-way



Exact8
6-way



Exact8
8-way



Exact8
10-way



1 Form	84040	86040	88040	80040
Type	3-pole	3-pole	3-pole	3-pole
Contact layout	M8-Females 3-pole <p>for 1 signal per port</p>			
2 Cable Type	Jacket Color – No./diameter of wires			
	gray	gray	gray	gray
PUR (UL/CSA), robots/C-tracks	334 – 4 × 0.34 + 2 × 0.75 mm ²	356 – 6 × 0.34 + 2 × 0.75 mm ²	359 – 8 × 0.34 + 2 × 0.75 mm ²	384 – 10 × 0.34 + 2 × 0.75 mm ²
3 Cable Length				
3.0 m	0300			
5.0 m	0500			
10.0 m	1000			
15.0 m	1500			
Technical Data				
Operating voltage	24 V DC			
Total current	max. 8 A			
Protection	IP67 inserted and tightened (EN 60529)			
Temperature range	-20...+80 °C, depending on cable quality			
Contact Layout				
LED display	LED (green): Power / LED (yellow): (S1)			
PIN 1	(+)			
PIN 3	(-)			
PIN 4	(NO)/(S1)			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - - </div>			
	1	2	3	
	Form	Cable Type	Cable Length	
Notes				

M8 DISTRIBUTION SYSTEMS

For sensors

- M12 plug connection
- 8-pole
- Inline face or side mounting

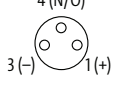
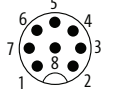
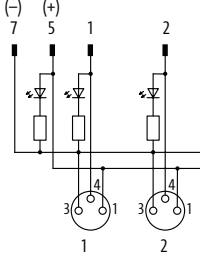
Approvals:  UL US Listed

Exact8
4-way



Exact8
6-way




1 Form	84070	86070
	3-pole	3-pole
Contact layout	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>M8-Females 3-pole</p> <p>4 (N/O)</p>  <p>3 (-) 1 (+)</p> </div> <div style="text-align: center;"> <p>M12-Plug 8-pole</p>  <p>5 4 3 2 1 7 8</p> </div> </div> <div style="text-align: center; margin-top: 10px;">  <p>for 1 signal per port</p> </div>	
Technical Data		
Operating voltage	24 V DC	
Operating current per contact	max. 2 A	
Protection	IP65/IP67	
Housing	Plastic, flame retardant	
Temperature range	-20...+70 °C, depending on cable quality	
Contact Layout		
LED display	LED (green): Power / LED (yellow): (S1)	
PIN 1	(+) / (S1)	
PIN 3	(-)	
PIN 4	(NO)/(S1)	
Article No.		
The composition of your article number is explained on page 3.1.i	<u>8 0 0 0</u> - - - - - - - - - - - - - - - - <u>0 0 0</u> <u>0 0 0 0</u>	
	1 Form	
Notes		

M8 Distribution Systems

M8 DISTRIBUTION SYSTEMS

For sensors

- M12 plug connection
- 12-pole
- Inline face or side mounting

Approvals:  Listed

Exact8
4-way



Exact8
6-way



Exact8
8-way

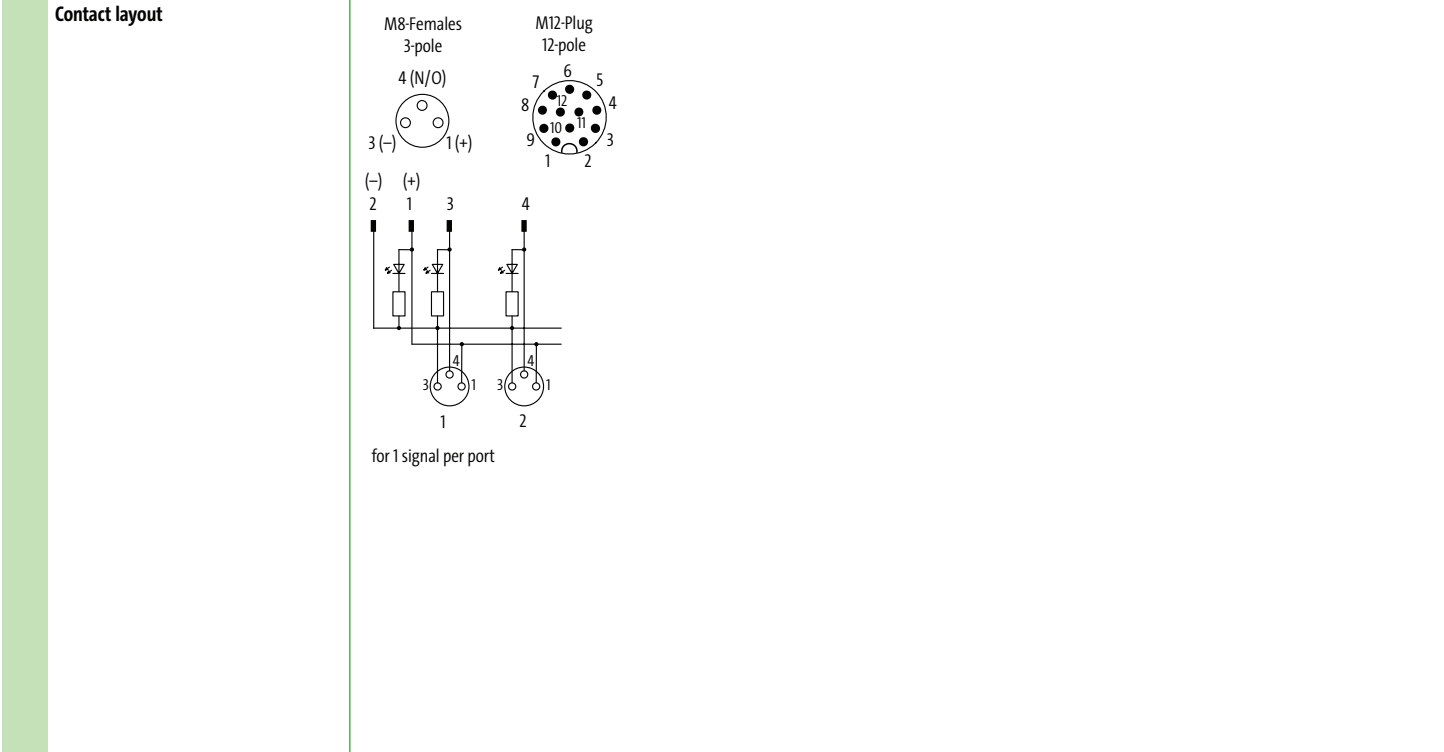


Exact8
10-way



1 Form	84060	86060	88060	80060
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Type	3-pole	3-pole	3-pole	3-pole
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Technical Data

Operating voltage	24 V DC
Operating current per contact	max. 1.5 A
Protection	IP67 inserted and tightened (EN 60529)
Housing	Plastic, flame retardant
Temperature range	-20...+70 °C, depending on cable quality

Contact Layout

LED display	LED (green): Power / LED (yellow): (S1)
PIN 1	(+)
PIN 3	(-)
PIN 4	(NO)/(S1)

Article No.


The composition of your article number is explained on page 3.1.i	8 0 0 0 - - - - - 0 0 0 0 0 0 0 0
	1 Form

Notes

M8 DISTRIBUTION SYSTEMS

For sensors

- M12 plug connection
- 12-pole
- Inline face or side mounting

Approvals: 

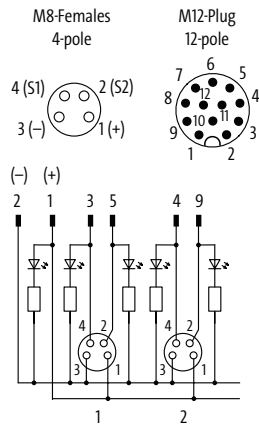
Exact8
4-way



1 Form 84160

Type 4-pole

Contact layout



for 2 signals per port

Technical Data

Operating voltage	24 V DC
Operating current per contact	max. 1.5 A
Protection	IP67 inserted and tightened (EN 60529)
Housing	Plastic, flame retardant
Temperature range	-20...+70 °C, depending on cable quality

Contact Layout

LED display	LED (green): Power / LED (yellow): (S1) / LED (white): Signal (S2)
PIN 1	(+)
PIN 2	(NC)/(S2)
PIN 3	(-)
PIN 4	(NO)/(S1)

Article No.

The composition of your article number is explained on page 3.1.i

8 0 0 0

- 8 4 1 6 0

- 0 0 0

0 0 0 0

1 Form

Notes

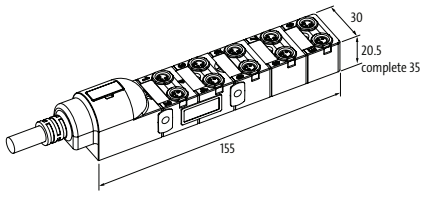
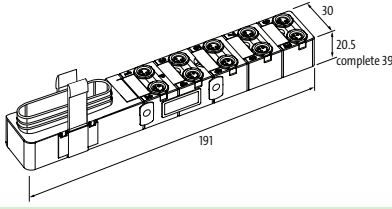
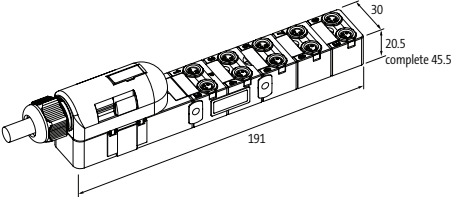
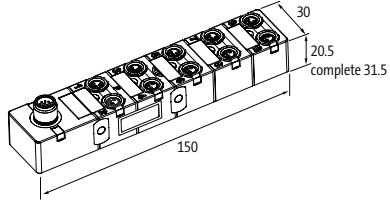
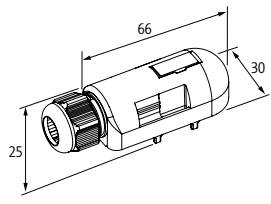
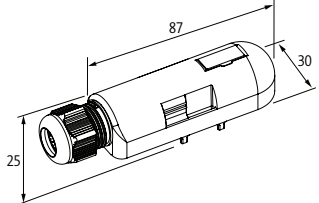
M8 DISTRIBUTION SYSTEMS

Plug accessories			Art-No.
	Torque wrench set M8 (0.4 Nm, SW9)	M8 data connectors	7000-99101-0000000
	Screw plug M8 x 1 mm (for female) Plastic, hex without gasket	Quantity: 10 pcs.	3858627
	Adapter M8/M12 3-pole 4-pole	M8 Distribution Systems M8 Distribution Systems	7000-88521-0000000 7000-88531-0000000
	Label plates KES 20 x 8 (white)	(10 pieces/2 plates)	996067
	T-coupler (Nano) Distribution function (NO)	M8 distribution systems, 4-pole	7000-88602-0000000
	Screw plug M12 x 1 mm (for male) Plastic	Quantity: 4 pcs.	56951
Homerun cable accessories			Art-No.
	Connection cap short Spring clamp terminals, 12-pole	4-way distribution box, 3/4-pole, 4...10-way, 3-pole Cable diameter (74...13 mm)	8000-84949-0000000
	Connection cap long Spring clamp terminals, 18-pole	6-, and 8-way distribution box, 4-pole Cable diameter (74...13 mm)	8000-80949-0000000
	Cable rings (50 m), 3-pole, PUR/PVC 4x0.34 + 2x0.75 mm ² 4x0.34 + 2x0.75 mm ²	4-way distribution boxes M8 4-way distribution boxes M8	8000-00000-3375000 8000-00000-3345000

M8 DISTRIBUTION SYSTEMS

Homerun cable accessories			Art-No.
	Cable rings (50 m), 3-pole, PUR/PVC 6×0.34 + 2×0.75 mm ²		6-way distribution boxes M8
	6×0.34 + 2×0.75 mm ²		6-way distribution boxes M8
	Cable rings (50 m), 3-pole, PUR/PVC 8×0.34 + 2×0.75 mm ²		8-way distribution boxes M8
	8×0.34 + 2×0.75 mm ²		8-way distribution boxes M8
	Cable rings (50 m), 3-pole, PUR/PVC 10×0.34 + 2×0.75 mm ²		10-way distribution boxes M8
	10×0.34 + 2×0.75 mm ²		10-way distribution boxes M8
	Cable rings (50 m), 4-pole, PUR/PVC 8×0.34 + 2×0.75 mm ²		4-way distribution boxes M8
	8×0.34 + 2×0.75 mm ²		4-way distribution boxes M8
	Cable rings (50 m), 4-pole, PUR/PVC 12×0.34 + 2×0.75 mm ²		6-way distribution boxes M8
	12×0.34 + 2×0.75 mm ²		6-way distribution boxes M8
	Cable rings (50 m), 4-pole, PUR/PVC 16×0.34 + 2×0.75 mm ²		8-way distribution boxes M8
	16×0.34 + 2×0.75 mm ²		8-way distribution boxes M8
	Cable rings (50 m), 4-pole, PUR (UL/CSA), halogen free 20×0.34 + 2×0.75 mm ²		10-way distribution boxes M8
	20×0.34 + 2×0.75 mm ²		10-way distribution boxes M8

M8 Distribution Systems Technical Data

	Description	4-way	6-way	8-way	10-way
	Exact8 Molded homerun cable	96 mm	109 mm	132 mm	155 mm
	Exact8 Basic module 3-pole Basic module 4-pole	132 mm 132 mm	145 mm 166 mm	168 mm 189 mm	191 mm –
	Exact8 Sets 3-pole Sets 4-pole	132 mm 132 mm	145 mm 166 mm	168 mm 189 mm	191 mm –
	Exact8 M12 plug connection	91.5 mm	104 mm	127 mm	150 mm
	Exact8 Short connection cap				
	Exact8 Long connection cap				