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| Distribution Systems for Sensors and Actuators

 **Comprehensive
OVERVIEW**



| M12 Distribution Boxes

| M8 Distribution Boxes

| Accessories



Distribution systems

for sensors and actuators

THE RIGHT DISTRIBUTION BOX FOR ANY APPLICATION

An answer for all your needs: Murrelektronik Distribution Systems



Single-wire connectivity in machines and installations is troublesome and error-prone. Murrelektronik's passive distribution boxes provide a much more convenient method for connecting sensors and actuators to the control cabinet. Murrelektronik provides a comprehensive range of distribution boxes: they create optimum installations for any application and are cost-effective, safe, and space saving solutions!

➤ **Economical!**

Installations with distribution boxes can quickly be installed. Modular components allow easy and convenient exchange which saves time and costs.

➤ **Safe!**

Practical and pre-tested plug connections help prevent wiring errors. Integrated LEDs facilitate diagnostic checks. It goes without saying that Murrelektronik's distribution boxes have IP65 or IP67 protection.

➤ **Save space!**

Fewer terminal blocks, fewer cable entry systems, and fewer terminal boxes in the field are distribution box solutions that save space and also offer flexible mounting options.



- Compact design saves space
- More safety, even with strong vibrations
- Two color signal indication of status
- Assembly compatible with other manufacturer's products

Exact12

Cost-effective, Compatible, Sealed

Exact12 features cost effective basic functionality. Various versions are available: two cable qualities, four different cable lengths, pluggable and molded caps enable all kinds of combinations.

The caps are designed for field wiring and they are available with pluggable screw terminals or spring clamp terminals. This allows connecting other cables in an easy and inexpensive manner.

Exact12 is a modular system, therefore, the distribution boxes can be separated for transportation purposes. This saves time. You can order the components separately or as a set.

Exact12 distribution boxes are especially suitable for applications in materials handling and assembly technology, test engineering, and in robotics. The housing is made of translucent polyurethane and is very resistant to shock and vibrations.

Exact12 Fits Your Application Exactly!



- Robust and resistant because of fully potted housing
- Tested shielding and optional grounding
- ATEX approval for applications exposed to explosive gas atmospheres
- Halogen-free PUR cable suitable for use in C-tracks

MVP12 Metal

Robust, Resistant, Safe

Murrelektronik's MVP12 Metal distribution boxes are most impressive when dealing with the harsh environments of mechanical engineering and plant construction. The boxes are fully potted so they are resistant to the ingress of oil and cooling lubricants. Murrelektronik's torque wrench and high quality O rings ensure permanently safe seals in all plug connections

The metal housing of MVP12 ensures resistance to extreme temperatures and intensive mechanical stress. The distribution boxes are designed for voltages up to 125V AC/DC. Tested shielding, with optional additional grounding, ensures safety even during extreme agitation.

MVP12 Metal is The Choice for Extreme Conditions!



- Slim, 30 mm two row design
- Additional InLine mounting holes on side
- Clear and readable indication signal
- More than 200 versions available

Exact8

Saves Space, is Versatile and Variable

Exact8 is the new generation of Murrelektronik's distribution boxes in slim 30 mm two-row design. Exact8 makes it possible to connect a maximum number of signals in a very small space. The normally closed contacts of the 4-pole distribution boxes are equipped with white LEDs, thus ensuring error-free signal indications.

Exact8 offers versatile mounting options, even for applications with narrow space available, thanks to additional InLine mounting holes on the side.

The new unique cap design, with pluggable spring clamp terminals, vastly shortens assembly times and does not require tools. Exact8 is also available with a pluggable M12 connection and pre-wired cable.

The housing made of translucent polyurethane is an innovation in the field of M8 distribution boxes. They are extremely resistant to shock and vibration.

With more than 200 models available, Exact8 is perfect for any application.

Exact8 Fits Your Application Exactly!

		Exact8	Exact12	MVP12-Metal
	IP65 Protection Tight even under high pressure water jet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	IP67 Protection Tight after immersion in water that's 1 meter deep for 30 minutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	IP68 Protection Tight after immersion in water that's 1 meter deep for 96 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	UL Approval Important for international sales to the USA and to Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ATEX Approval II 3 G/D Suitable for applications exposed to dust and explosive gas atmospheres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PUR/PVC Cable Solid standard cable, abrasion resistant, for applications in moving parts, partly suitable for C-tracks, up to 2 million bending cycles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Halogen-Free PUR Cable Suitable for use in C-tracks, abrasion protected, resistant to oil and cooling lubricants, extended temperature range, up to 5 million bending cycles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Two-Color LED Display Clear signal identification with bright yellow and white LEDs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Extended Temperature Range Suitable for applications in the range of -25 to +90°C (-13° to +195°F)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Shielded Metal Housing Complete shielding against agitation possible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Voltages up to 125 V AC/DC Special PCB with increased air and creepage distances, without LED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NPN	LEDs with NPN Logic For applications with negative logic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pluggable Cap Economical and service-friendly pluggable solution, pre-wired and field-wireable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M12	M12 Round Plug Connectors Pluggable solutions for sensors, various connection options	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M23	M23 Round Plug Connector Pluggable solution with high current capacity for sensors and actuators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Assembly Compatibility Drilling holes identical to other manufacturers, allow easy exchanging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DISTRIBUTION SYSTEMS

FOR SENSORS AND ACTUATORS



Pre-wired Homerun Cable					
MVP-Metal					
PUR		unshielded		shielded	
		PNP	without LED	PNP	without LED
4-way	3 m	27471	27481	27476	27486
	5 m	27472	27482	27477	27487
	10 m	27473	27483	27478	27488
	15 m	27474	27484	27479	27489
8-way	3 m	27491	27496	27511	27516
	5 m	27492	27497	27512	27517
	10 m	27493	27498	27513	27518
8-way	15 m	27494	27499	27514	27519
	universal				
	3 m	27461			
4-way	5 m	27462			
	10 m	27463			
	15 m	27464			

Exact12				
		PUR/PVC	PUR/PVC	PUR
4-way	M12 female 4-pole		M12 female 5-pole	M12 female 5-pole
	PNP (0300, 0500, 1000, 1500)	8000-84410-333	8000-84410-363	8000-84510-448
	NPN (0500, 1000)	8000-84411-333	8000-84411-363	8000-84511-448
	without LED (0500, 1000)	8000-84412-333	8000-84412-363	8000-84512-448
8-way	M12 female 4-pole		M12 female 5-pole	M12 female 5-pole
	PNP (0300, 0500, 1000, 1500)	8000-88410-362	8000-88510-398	8000-88510-452
	NPN (0500, 1000)	8000-88411-362	8000-88511-398	8000-88511-452
	without LED (0500, 1000)	8000-88412-362	8000-88512-398	8000-88512-452

Exact8					
		PUR/PVC	PUR		
4-way	M8 female 3-pole			M8 female 3-pole	
	PNP (0300, 0500, 1000, 1500)	8000-84010-337	8000-84010-334		
	NPN (0500, 1000)	8000-84011-337	8000-84011-334		
	without LED (0500, 1000)				
8-way	M8 female 4-pole			M8 female 4-pole	
	PNP (0300, 0500, 1000, 1500)		8000-84110-360		
	NPN (0500, 1000)		8000-84111-360		
	without LED (0500, 1000)				
10-way	M8 female 3-pole			M8 female 3-pole	
	PNP (0300, 0500, 1000, 1500)	8000-88010-357	8000-88010-359		
	NPN (0500, 1000)	8000-88011-357	8000-88011-359		
	without LED (0500, 1000)				
10-way	M8 female 4-pole			M8 female 4-pole	
	PNP (0300, 0500, 1000, 1500)		8000-88110-396		
	NPN (0500, 1000)		8000-88111-396		
	without LED (0500, 1000)				

Plug Connector			
MVP-Metal			
Plug connector M23			
PNP		without LED	universal
4-way	27530	27531	27533
8-way	27535	27536	

MVP12			
Plug connector M23			
12-pole		19-pole	19-pole, 90°
M12 female 4-pole		M12 female 5-pole	M12 female 5-pole
4-way	27763	27782	27787
6-way	27764	27783	27786
8-way	27765	27784	27785

Exact8			
Plug connector M12		12-pole	12-pole
8-pole		8-pole	8-pole
M8 female 3-pole		M8 female 3-pole	M8 female 4-pole
4-way	8000-94060-0000000	8000-86060-0000000	8000-84160-0000000
6-way		8000-86060-0000000	
8-way		8000-88060-0000000	
10-way		8000-80060-0000000	

* INFORMATION *

How to create your order no.

Please enter here () the required cable length:

0300 = 3 m

0500 = 5 m

1000 = 10 m

1500 = 15 m

MVP12			
Rear connection			
8-way	5-pole pre-wired		
	1 m	27146	
	3 m	27148	
	5 m	27149	
5-pole field-wireable			27158
Cable			
4-way	Exact12 4-pole		Exact8 3-pole
	PUR/PVC	8000-00000-3335000	8000-00000-3375000
	PUR		8000-00000-3345000
	PUR/PVC	8000-00000-3505000	
	PUR		8000-00000-3565000
	PUR/PVC	8000-00000-3625000	8000-00000-3575000
8-way	PUR	8000-00000-3595000	
	PUR/PVC	8000-00000-3855000	
	PUR	8000-00000-3845000	
10-way	Exact12 5-pole		Exact8 4-pole
	PUR/PVC	8000-00000-3635000	
	PUR	8000-00000-4485000	8000-00000-3605000
6-way	PUR/PVC		8000-00000-3895000
	PUR		
	PUR/PVC	8000-00000-3985000	
8-way	PUR	8000-00000-4525000	8000-00000-3965000
	PUR/PVC		
	PUR		8000-00000-4115000

Exact12					
		Basic housing	Pre-wired Cap		Set with field-wireable cap
			PUR/PVC	PUR	
4-way	4-pole				
	PNP	8000-84400-0000000	3m	4027011	8000-84450-0000000
	NPN	8000-84401-0000000	5m	4027012	8000-84451-0000000
	without LED	8000-84402-0000000	10m	4027013	8000-84452-0000000
8-way	5-pole				
	PNP	8000-84500-0000000	3m	4027025	8000-84550-0000000
	NPN	8000-84501-0000000	5m	4027026	8000-84551-0000000
	without LED	8000-84502-0000000	10m	4027027	8000-84552-0000000
4-way	4-pole				
	PNP	8000-88400-0000000	3m	4027021	8000-88450-0000000
	NPN	8000-88401-0000000	5m	4027022	8000-88451-0000000
	without LED	8000-88402-0000000	10m	4027023	8000-88452-0000000
8-way	5-pole				
	PNP	8000-88500-0000000	3m	4027035	8000-88550-0000000
	NPN	8000-88501-0000000	5m	4027036	8000-88551-0000000
	without LED	8000-88502-0000000	10m	4027037	8000-88552-0000000
8-way	Field-wireable cap				

Exact8						
		Basic housing	Pre-wired Cap	Pre-wired Cap	Set with pre-wired cap	Set with pre-wired cap
			PUR/PVC	PUR	PUR/PVC	PUR
4-way	M8 female 3-pole					
	PNP	8000-84000-0000000	8000-84049-337	8000-84049-334	8000-84040-337	8000-84040-334
	NPN	8000-84001-0000000				
	without LED	8000-84100-0000000		8000-84149-360		8000-84140-360
6-way	M8 female 4-pole					
	PNP	8000-86100-0000000		8000-86149-389		8000-86140-389
	NPN	8000-86101-0000000				
	without LED	8000-86200-0000000	8000-86049-350	8000-86049-356	8000-86040-350	8000-86040-356
8-way	M8 female 3-pole					
	PNP	8000-88000-0000000	8000-88049-357	8000-88049-359	8000-88040-357	8000-88040-359
	NPN	8000-88001-0000000				
	without LED	8000-88100-0000000		8000-88149-396		8000-88140-396
10-way	M8 female 4-pole					
	PNP	8000-80000-0000000	8000-80049-385	8000-80049-384	8000-80040-385	8000-80040-384
	NPN	8000-80001-0000000				
	without LED					
Field-wireable cap						
suitable for						
short with 12-pol. spring clamp terminal			8000-84949-0000000	Exact8 3-pole and 4xM8 4-pole		
long with 18-pol. spring clamp terminal			8000-80949-0000000	Exact8 6xM8 and 8xM8 4-pole		

Accessories for M12 Distribution Boxes			
M12 Screw plug metal	996049	Adapter M8/M12 for connection M12 ports to M8 distribution box 3-pole	7000-88521-0000000
M12 Screw plug plastic	58627	Adapter M8/M12 for connection M12 ports to M8 distribution box 4-pole	7000-88531-0000000
Snap foot for DIN-rail (EN 60715)	27905	Torque wrench M12	7000-99102-0000000
Label plates MVP12 Metal	996067	T-coupler for connection 8-pole M12 sensor / 2x M12 5-pole female	334011
Label plates MVP12/Exact12	996050	T-coupler 2x M8 3-pole / 1x M12 5-pole	7000-41221-0000000

Accessories for M8 Distribution Boxes	
Screw plug M8 plastic	3858627
Label plates Exact8	996067
Torque wrench M8	7000-99101-0000000
Adapter M12/M8 for connection 3-pol. M8 ports to M12 distribution box	7000-42201-0000000
Adapter M12/M8 for connection 4-pol. M8 ports to M12 distribution box	7000-42211-0000000
Nano T-coupler for side assembly	7000-88602-0000000



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