

# Easy cable and conductor routing for the control cabinet door

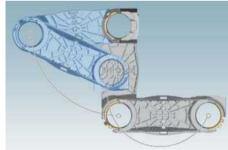
CGS cable routing system



# Easy cable and conductor routing for the control cabinet door

The swivel arm of the cable routing system makes it particularly easy and safe to install your conductors, cables, and cable harnesses for the control cabinet door or swivel mounting frame. This solution is time-saving, as the patent-pending swivel joints can be opened and pre-assembled cables can be fed through or pulled through without using any tools.





# Defined installation space and 180° swivel range

This simplifies design and compared to cable conduits enables planning and mapping in the CAD system. Cable lengths are therefore predefined and can also be planned.





## Integrated flanges simplify mounting

Simple and time-saving mounting compared to mounting with cable conduits.



Safe thanks to integrated strain relief

The strain relief is ensured using conventional cable binders. Additional strain relief is not required.



Covers provide protection and conductor bundling

Mechanical cable protection and safe routing and bundling when closing and opening the control cabinet door.

### Easy cable routing of pre-assembled data cables

Energy chains and drag chains usually require compatible cables and lines. Standard cables are easily damaged due to the high strain resulting from the movement and bending of the chains. It is almost impossible to insert preassembled cables into cable conduits - an alternative to energy and drag chains - since both the cable or cable harness and the connector need to be pulled through. The cable routing system has been designed for use of standard cables with preassembled connectors. The cables including the connectors can be inserted by way of joints that can be opened. Large bending radii and defined movements protect the wires from being damaged. This was tested with 100 x 1.5 mm<sup>2</sup> cables (H05Z-K) as well as with data cables (Cat. 5 Ethernet cables). The CGS was opened and closed 2000 times for this test and no damage was found on the wires.



Optimum and safe cable routing of pre-assembled data cables and lines

#### Safe cable routing to mounted FAME test terminal strips

For control and operating purposes, protective devices and control devices should be accessible from the outside and are therefore mounted in the door. This is why some devices, plus test terminal strips like FAME, are mounted in the control cabinet door in protection and control technology applications. This additionally saves space in the control cabinet. These components can now be wired in an even easier and more flexible way with the CGS cable routing system from Phoenix Contact.



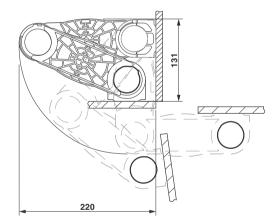
Safe conductor routing to the FAME test disconnect system in the control cabinet door

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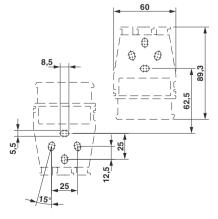
# Ordering data and technical data

		Cable routing system Swivel link for opening		Cable routing system Swivel link closed		Protective cover	
Туре	rder No.	CGSA 50	3071401	CGS 50	3071400	CGS-AH 50	3071410
Cable entry opening	[mm]	42		42			
Maximum number of cables, e.g. 1.5 mm <sup>2</sup>		100		100			
Average cable length	[mm]	580		580			
Maximum apex angle control cabinet do	oor [°]	180		180			
Width of cable binder for strain relief	[mm]	4		4			
Insulation material		PC		PC		PC	
Flammability rating UL 94		V0		V0		V0	
Diameter fixing holes	[mm]	5.5		5.5			

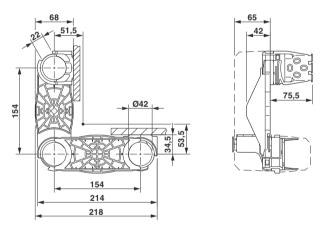
# Assembly instruction



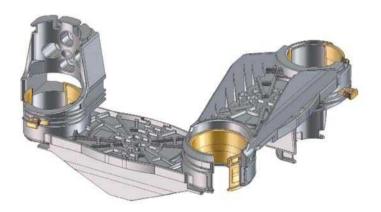
Installation space with closed control cabinet door



Drilling diagram



Installation space with open control cabinet door (180 $^{\circ}$ )



CAD drawings can be downloaded directly from the website in the product area

# Cable management, installation and mounting material

Maximum quality and functionality down to the smallest details: Phoenix Contact offers an optimally coordinated range of accessories for junction box and control cabinet manufacturing. This way, you receive all components for your solution from a single source.

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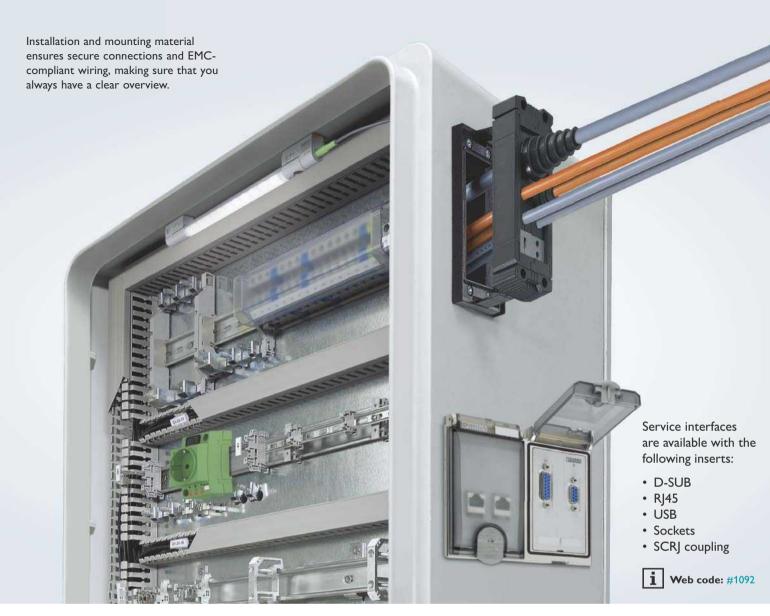




### Cable entry plates

CES Multigates are metal-reinforced cable entry plates. They provide you with numerous options for routing cables through a control cabinet panel with a tight seal.

**i** Web code: #0570





#### Cable protection systems

The comprehensive range of plastic and metal protective hoses provides you with reliable solutions for a wide range of applications up to a degree of protection of IP69K.



#### Cable routing

Orderly cable routing is absolutely essential for clear arrangement in your control cabinet. This is ensured by cable ducts in various sizes and colors.



#### Grounding and shielding

Phoenix Contact offers a comprehensive product range covering all aspects of grounding and shielding for your electronic components.



**i** Web code: #0094



**i** Web code: #0845

# Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

You can find your local partner at phoenixcontact.com



