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.

Tool-free opening and closing of swivel joints
The orange swivel link allows you to open the swivel joints without using any tools. Installing and pulling through cables is quite simple.

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 mm² 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.

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.
Ordering data and technical data

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Assembly instruction

Installation space with closed control cabinet door

Installation space with open control cabinet door (180°)

Drilling diagram

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.

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.

Modular cable entry system
Using the cable sleeves from CES modular, which can be combined in various ways, you can mount assembled as well as unassembled cables quickly and flexibly.
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.

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.

Grounding and shielding
Phoenix Contact offers a comprehensive product range covering all aspects of grounding and shielding for your electronic components.
In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 14,500 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.

You will find our complete product range at: phoenixcontact.com