DIRAK

SECURE APPLICATIONS IN E-MOBILITY

We Don‘t Build Electrical Charging Poles. But We Do Make Them More Secure.

As electric cars become more widely used, the network of e-charging stations is continuously expanding. Currently just short of 60,000 public charging points have been reported to the German Federal Network Agency – a landscape of housings that require a secure latching solution to reliably protect the power connections of the charging poles to the associated equipment.

Protection against the Weather and Vandalism

Charging stations for electric cars are located largely in publicly accessible outdoor areas where they are exposed not only to the effects of weather, but also to vandalism. To protect these housings, which are so important for the infrastructure against this kind of damage, the switch cabinets should be securely locked.

Handles have been developed for this purpose that meet the requirements of resistance class RC2 similar to DIN 1630 and are thus able to withstand vandalism damage by opportunists.

However, there is no requirement that e-charging poles in line with RC2 have to be locked. Thus many other swinghandles and latches are also suitable.

It is important to use a latch with a profile cylinder to make certain it is not too easy to break into the charging station. If several groups of persons need to have access, for example two different service providers, we recommend a double cylinder swinghandle with liftable operating lever.

Which Key Features Do the Latches on Your Electrical Charging Poles Need?

Weather-resistant

Corrosion protection

Long service life

Protection against vandalism

Sturdy Material

In regard to the material, latching solutions made of powder-coated zinc die or stainless steel have proven to be effective. These materials offer protection against the weather and are so sturdy that it is difficult for opportunistic vandals to break open or saw through the latches.

The same applies to hinges in this application. We also recommend using concealed hinges. They are not visible from the outside because they are seated inside the housing. That means would-be vandals are unable to tell where the hinges are screwed in.

The All-Rounder.

Swinghandle 2-104 is a multi-purpose device for outdoor use. It is dustproof and watertight to IP65 in accordance with DIN EN 60529. Thanks to a UV-resistant powder coating, in the standard shade of gray of the switch cabinets, it is weather-resistant and blends in with the cabinet visually. The handle is also protected against opportunistic vandals by the following properties: The handle is angled upward so it cannot be used as a climbing aid. A latch bolt protects the swinghandle against being broken open.

2-104

3-145

The T-Handle for Flat Applications.

If the latch has to lie especially flat on the switch cabinet, we recommend using T-Handle 3-145. With two possible installation depths of 15 or 30 mm, it is flatter than a conventional swinghandle. When the latch is unlocked, the handle moves forward 90° and can then be turned 135° to open the door. Due to the flat design of the T-handle, it cannot be used as a climbing aid. The cylinder is also protected against breaking through. The handle is suitable for locking systems with flat and round rods and meets the requirements of protection class IP65 in accordance with DIN EN 60529.

Double Cylinder for Double Access.

The double cylinder swinghandle with liftable operating lever is suitable for housings when multiple groups of persons need to have access, for example two different service providers. Thanks to integrated saw protection, even greater protection is ensured, which goes beyond resistance class 2 (RC2). The double cylinder swinghandles also meet the requirements of protection class IP65 in accordance with DIN EN 60529.

2-126.01

2-126.02

2-090

The Standard with Additional Protection.

This standard swinghandle can be locked by using a profile cylinder with 45° or 90° cam position. Version with cap meets the requirements of protection class IP65 in accordance with DIN EN 60529. Thus no dirt is able to penetrate into the latch.

2-102

For Robust Requirements.

This swinghandle with liftable operating lever meets the requirements of resistance class RC2 and is dustproof and watertight in accordance with DIN EN 60529. That makes it suitable for various outdoor applications. A latch bolt (HRC 45) also protects it against being broken open and a steel insert makes it difficult to saw through.

7-066

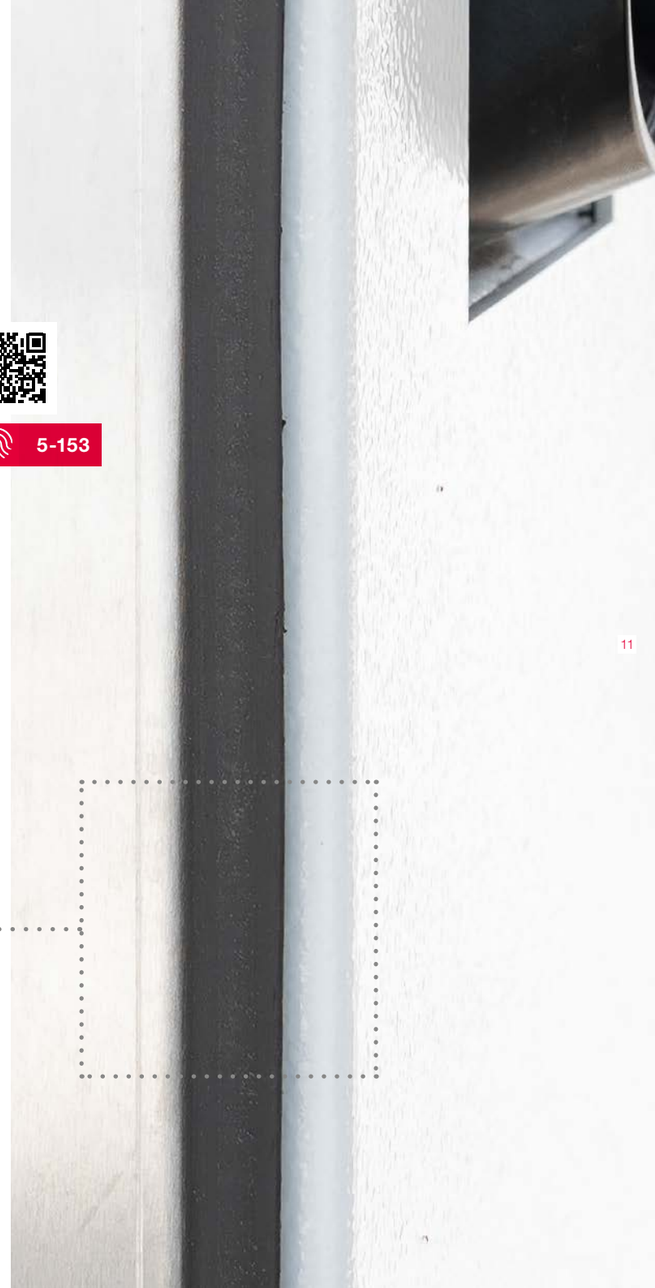
Ready for Everything with Stainless Steel.

This stainless steel swinghandle can withstand all the effects of weather thanks to its material. Due to the flat design, it cannot be used as a climbing aid. The locking cylinder is fastened in a dish and protected against breaking through.

Withstands Any Weather.

E-charging poles are constantly exposed to the weathering effects of sun, rain and temperature differences. Gaskets under these conditions require special materials. Our PVC clip-on sealing profiles with sealed-on sponge rubber profiles made of synthetic rubber feature high aging resistance and elasticity. Type-tested to UL 157 and UL 50E, they are the first choice for durable sealing in e-charging poles.

5-153



Concealed for Additional Security.

Concealed hinges are seated in the housing and are suitable for surface mounted doors. This makes them invisible from the outside so there is no way to see where on the housing the hinges are located. Additional variants of concealed hinges are available for different sizes and fastening types.

A Well-Rounded Product.

As an alternative to swinghandles, this stainless steel 2-point latch can also be used in housings such as e-charging stations. It is suitable for controlling flat rods. The latch is closed by the key of the profile cylinder in accordance with DIN 18252. The latch is also dustproof and watertight to IP69K in accordance with DIN EN 40050.

Quarter-Turn

Swinghandle

Customer-specific solutions

Multi-Point latches

Fastening Technology

Handles

Hinges

Mechatronic locking solutions

Gaskets

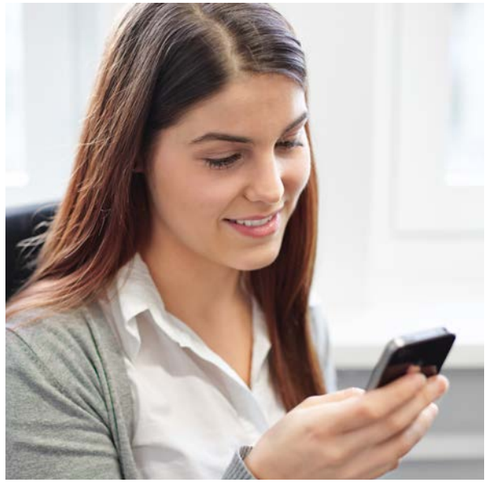
Latches

By the way: You can find these and other products on our website.

Always the Best Product for Your Application

At the center of our activity is the constant desire to find the best product and with it the optimal solution for your application. Meeting your specifications and fine-tuning our development to them is what we do. Whether swinghandle, quarter-turn, hinge, fastener, gasket or a system or individual part specifically manufactured according to your data – we take great care and our processes are oriented to ensure that both the consulting and the product you receive meet your quality standards. To do this, we use whatever means we have entirely for your benefit. In addition, development-stage prototypes and various load tests are just as important to each process as the logistics to safeguard your required supply chain.

From the concept stage to when the order is fulfilled and delivered, we always focus on your requirements and are at your side as a reliable partner, even after the project has ended.



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Find your contact person.

Do you have questions about our products or would you like a personal consultation? You can reach us at any time. Simply enter your zip code in the contact form on our website to find the direct contact person in your area.

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