

R&S®QPS (P2)

Integrated Shoe Scanner

Installation Instructions



1179728502
Version 03

ROHDE & SCHWARZ
Make ideas real



This manual describes the functionality of the R&S®QPS201 (P2) shoe scanner.

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Muehldorfstr. 15, 81671 Muenchen, Germany

Phone: +49 89 41 29 - 0

Email: info@rohde-schwarz.com

Internet: www.rohde-schwarz.com

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Throughout this manual, products from Rohde & Schwarz are indicated without the ® symbol and without the model designation, e.g. R&S®QPS201 (P2) is indicated as R&S QPS.

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1 Safety information (multilingual)

This option or accessory is designed for a specific Rohde & Schwarz product. Multilingual safety information is delivered with the product. Follow the provided installation instructions.

Esta opción o este accesorio están diseñados para un producto Rohde & Schwarz concreto. El producto va acompañado de información de seguridad en varios idiomas. Siga las instrucciones de instalación puestas a disposición.

Diese Option oder dieses Zubehör ist für ein bestimmtes Rohde & Schwarz Produkt vorgesehen. Mit dem Produkt werden mehrsprachige Sicherheitsinformationen geliefert. Befolgen Sie die mitgelieferten Installationsanweisungen.

Cette option ou cet accessoire est conçu pour un produit Rohde & Schwarz spécifique. Des informations de sécurité multilingues sont fournies avec le produit. Suivez les instructions d'installation fournies.

Questa funzione opzionale o accessoria è progettata per un prodotto Rohde & Schwarz specifico. Con il prodotto sono fornite informazioni sulla sicurezza in formato multilingue. Seguire le istruzioni di installazione allegate.

Esta(e) opção ou acessório foi concebida(o) para um produto específico da Rohde & Schwarz. Serão fornecidas informações de segurança multilingues com o produto. Siga as instruções de instalação fornecidas.

Αυτή η προαιρετική επιλογή ή εξάρτημα έχει σχεδιαστεί για συγκεκριμένο προϊόν Rohde & Schwarz. Μαζί με το προϊόν παρέχονται πληροφορίες ασφαλείας σε πολλές γλώσσες. Ακολουθήστε τις παρεχόμενες οδηγίες εγκατάστασης.

Din l-għażla jew aċċessorju huma mfassla għal prodott Rohde & Schwarz speċifiku. L-informazzjoni multilingwi dwar is-sikurezza hija pprovduta mal-prodott. Segwi l-istruzzjonijiet ipprovduti għall-installazzjoni.

Deze optie of dit accessoire is ontwikkeld voor een specifiek product van Rohde & Schwarz. Het product wordt geleverd met veiligheidsinformatie in meerdere talen. Volg de meegeleverde installatie-instructies.

Denne mulighed eller tilbehørsdel er designet til et specifikt Rohde & Schwarz produkt. En flersproget sikkerhedsanvisning leveres sammen med produktet. Følg de medfølgende installationsanvisninger.

Detta tillval eller tillbehör är avsett för en särskild produkt från Rohde & Schwarz. Säkerhetsinformation på flera språk medföljer produkten. Följ de medföljande installationsanvisningarna.

Tämä vaihtoehto tai lisävaruste on suunniteltu tietylle Rohde & Schwarz -yrittäjän tuotteelle. Tuotteen mukana on toimitettu monikieliset turvallisuusohjeet. Noudata annettuja asennusohjeita.

Dette alternativet eller ekstrautstyret er utformet for et spesifikt Rohde & Schwarz produkt. Flerspråklig sikkerhetsinformasjon leveres med produktet. Overhold installasjonsveiledningen som følger med.

See valik või lisaseade on mõeldud konkreetsele Rohde & Schwarz tootele. Tootege on kaasas mitmekeelne ohutusteave. Järgige kaasasolevaid paigaldusjuhiseid.

Št opcija vai piederums ir izstrādāts īpaši Rohde & Schwarz produktam. Produktam pievienota drošības informācija vairākās valodās. Ievērojiet sniegtos uzstādīšanas norādījumus.

Ši parinktis ar priedas skirti konkrečiam Rohde & Schwarz gaminiui. Su gaminiu pateikiama saugos informacijos keliomis kalbomis. Laikykite pateikiamų montavimo nurodymų.

Þessi auka- eða fylgibúnaður er hannaður fyrir tiltekna Rohde & Schwarz vöru. Öryggisupplýsingar á mörgum tungumálum fylgja með vörunni. Fylgið meðfylgjandi uppsetningarleiðbeiningum.

Tá an rogha nó an oiriúint seo ceaptha le haghaidh táirge Rohde & Schwarz sonrach. Cuirtear eolas sábháilteachta ilteangach ar fáil leis an táirge. Lean na treoracha suiteála a thugtar.

Эта опция или принадлежность предназначена для конкретного продукта Rohde & Schwarz. В комплект поставки продукта входят инструкции по технике безопасности на нескольких языках. Соблюдайте прилагаемые инструкции по установке.

Ця опція або приладдя призначені для конкретного виробу Rohde & Schwarz. Інструкції з техніки безпеки кількома мовами постачаються разом із виробом. Дотримуйтеся наданих інструкцій зі встановлення.

Ta opcja lub akcesorium jest przeznaczona do określonego produktu Rohde & Schwarz. Dostarczany produkt zawiera informacje w wielu językach dotyczące bezpieczeństwa. Należy postępować zgodnie z dostarczonymi instrukcjami instalacji.

Tato varianta nebo příslušenství je určeno pro konkrétní produkt Rohde & Schwarz. S produktem jsou dodávány vícejazyčné bezpečnostní informace. Řiďte se příloženými pokyny k instalaci.

Táto verzia alebo príslušenstvo je navrhnutá pre špecifický výrobok Rohde & Schwarz. S výrobkom sa dodávajú viacjazyčné bezpečnostné pokyny. Riad'te sa dodanými pokynmi na inštaláciu.

Ta možnost ali dodatek je zasnovan za določen izdelek podjetja Rohde & Schwarz. Izdelku so priložena varnostna navodila v več jezikih. Upoštevajte priložena navodila za namestitev.

Ezt a beállítást vagy tartozékot egy adott Rohde & Schwarz termékhez tervezték. A termékhez többnyelvű biztonsági információt mellékelünk. Kövesse a mellékelt szerelési utasításokat.

Тази опция или аксесоар са проектирани за специфичен продукт на Rohde & Schwarz. Многоезикова информация за безопасност се доставя с продукта. Следвайте предоставените инструкции за монтаж.

Ova opcija ili oprema namijenjena je za određeni proizvod tvrtke Rohde & Schwarz. Uz proizvod su dostavljene sigurnosne napomene na više jezika. Pratite isporučene upute za ugradnju.

Ova opcija ili pribor je dizajniran za određeni Rohde & Schwarz proizvod. Proizvodu su priložene sigurnosne informacije na više jezika. Slijedite priložena uputstva za instalaciju.

Ova opcija ili dodatni pribor je projektovan za određeni Rohde & Schwarz proizvod. Bezbednosne informacije na više jezika se isporučuju uz proizvod. Sledite dostavljena uputstva za instalaciju.

Această opțiune sau acest accesoriu a fost conceput pentru un produs specific Rohde & Schwarz. Informațiile multilingve privind siguranța sunt livrate împreună cu produsul. Urmați instrucțiunile de instalare furnizate.

Ky opsion ose aksesori është krijuar për një produkt specifik Rohde & Schwarz. Bashkë me produktin jepen edhe informacionet e sigurisë në shumë gjuhë. Ndiqni udhëzimet e dhëna të instalimit.

Оваа опција или додаток се наменети за одреден производ на Rohde & Schwarz. Со производот се испорачани повеќејазични безбедносни упатства. Следете ги дадените упатства за инсталација.

Bu opsiyon veya aksesuar, belirli bir Rohde & Schwarz ürünü için tasarlanmıştır. Çok dilli güvenlik uyarıları ürünle birlikte teslim edilir. Size sağlanan kurulum talimatlarına uyun.

Šu opsiya ya-da esbap Rohde & Schwarz anyk önüm üçün niyetlenilen. Dürli dildäki howpsuzlyk barada maglumat önüm bilen bile üpjün edilyär. Üpjün edilen gurnama ugrukdymalaryny ýerine ýetiriň.

কম্পিউটার বা অন্যান্য যন্ত্রের সাথে এই Rohde & Schwarz যন্ত্রের কানেকশন নিশ্চিত করা উচিত। যন্ত্রের সাথে যন্ত্রের কানেকশন নিশ্চিত করা উচিত। যন্ত্রের সাথে যন্ত্রের কানেকশন নিশ্চিত করা উচিত।

本选件或附件专门设计用于特定的 Rohde & Schwarz 产品。产品随附多种语言版本的安全资讯。谨遵文件中的安装说明。

本オプションアクセサリは、特定の Rohde & Schwarz 製品向けに設計されています。多言語で記載された安全情報が製品に付属します。付属のインストール手順に従ってください。

이 옵션 또는 액세서리는 특정 Rohde & Schwarz 제품용으로 설계되었습니다. 제품과 함께 다국어로 작성된 안전 정보가 제공됩니다. 함께 제공된 설치 지침을 따르십시오.

本選配或配件專門設計用於特定的 Rohde & Schwarz 產品。產品隨附多種語言版本的安全資訊。遵守文件中的安裝說明。

Tùy chọn hoặc phụ kiện này dành riêng cho một sản phẩm Rohde & Schwarz cụ thể. Thông tin an toàn đa ngôn ngữ được cung cấp kèm theo sản phẩm. Thực hiện theo hướng dẫn lắp đặt kèm theo.

ตัวเลือกหรืออุปกรณ์เสริมนี้ออกแบบมาสำหรับผลิตภัณฑ์ Rohde & Schwarz โดยเฉพาะ โดยจะมีการจัดส่งข้อมูลด้านความปลอดภัยหลายภาษามาให้พร้อมกับผลิตภัณฑ์ ปฏิบัติตามคำแนะนำในการติดตั้งที่ให้ไว้

Pilihan atau aksesori ini direka bentuk untuk produk Rohde & Schwarz yang tertentu. Maklumat keselamatan berbilang bahasa disertakan bersama produk. Ikut arahan pemasangan yang diberikan.

Opsi atau aksesoris ini dirancang untuk produk Rohde & Schwarz tertentu. Informasi keamanan dalam beberapa bahasa juga disertakan bersama produk. Ikuti petunjuk pemasangan yang disediakan.

Esta opción o este accesorio están diseñados para un producto Rohde & Schwarz en concreto. El producto va acompañado de información de seguridad en varios idiomas. Siga las instrucciones de instalación proporcionadas con el producto.

Esta opção ou acessório foi desenvolvido para um produto Rohde & Schwarz específico. Informações de segurança em vários idiomas acompanham o produto. Siga as instruções de instalação disponibilizadas.

Информация о безопасности и инструкции по установке даны на нескольких языках. Следуйте инструкциям по установке, прилагаемым к устройству.

تم تصميم هذا الخيار أو الملحقات معيّن من منتجات Rohde & Schwarz لتقديم معلومات السلامة المحددة بالاشتراك مع المنتج. اتبع تعليمات التثبيت التي تليها.

این آپشن یا وسیله جانبی مشخصه برای محصول Rohde & Schwarz است. اطلاعات ایمنی و راهنمای نصب در زبانهای مختلف همراه محصول درج شده است. دستورالعملهای نصبی را با دقت بخوانید.

اوپر لکھنایز یا حصصے کو مخصوصہن Rohde & Schwarz پروڈکٹ کے لئے تیار کیا گیا ہے۔ پروڈکٹ کے ساتھ کچھ ایسی (زبانوں میں) حفاظتی معلومات فراہم کی جاتی ہیں۔ فراہم کردہ تصدیق کی پالیسی پر عمل کریں۔

2 Regulatory information

The R&S QPS complies with the following regulations.

2.1 Regulations for the USA

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2.2 Regulations for Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- Cet appareil ne doit pas causer d'interférences.

- Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

3 Welcome

The shoe scanner is an optional feature for the R&S QPS security scanner that adds functionality to detect metallic objects in shoes, which is not possible with the basic scanner configuration - people had to remove their shoes before being scanned. Using the shoe scanner therefore improves the whole scan workflow by reducing the time it takes to scan a person - they no longer have to remove their shoes. Body and feet are scanned at the same time. Separate shoe checks are no longer necessary.

The shoe scanner hardware is built into the floorplate of the R&S QPS and is controlled by its hardware. The option also unlocks the features in the software (workflow and configuration).

Note that using the shoe scanner always requires the optional light barrier to work properly. Therefore, the transit alarm workflow as described in the R&S QPS user manual always applies to shoe scanner operation as well.

Otherwise, the shoe scanner results are fully integrated into existing workflows.

- Shoe scanner results are forwarded to resolution stations.
- Alarms can be placed manually on the feet of the avatar.
- Random alarm generation also generates foot alarms.

4 Installation

The shoe scanner requires that the optional light barrier is installed. For installing the light barrier, refer to [Chapter 4.3, "Installing the light barrier"](#), on page 20.

Prerequisites

- A system software that supports the shoe scanner.
- A shoe scanner license.
- [Installing the shoe scanner](#)..... 12
- [Installing panel frames](#)..... 19
- [Installing the light barrier](#)..... 20
- [Activating the software license](#)..... 24

4.1 Installing the shoe scanner

Preparing the R&S QPS

1. Switch off the R&S QPS and disconnect it from the mains supply.
2. Remove the cover of the ExtCon board from the primary panel.
3. Push the 4 covers of the floor plate inwards to remove them. Refer to [Figure 4-1](#).

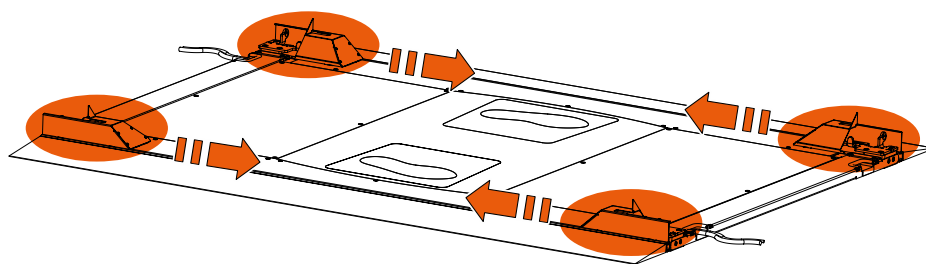


Figure 4-1: Removing the covers of the floor plate

4. Unscrew the 14 screws (1) to remove the 2 ramps (2). Refer to [Figure 4-2](#). Keep the screws for later use.

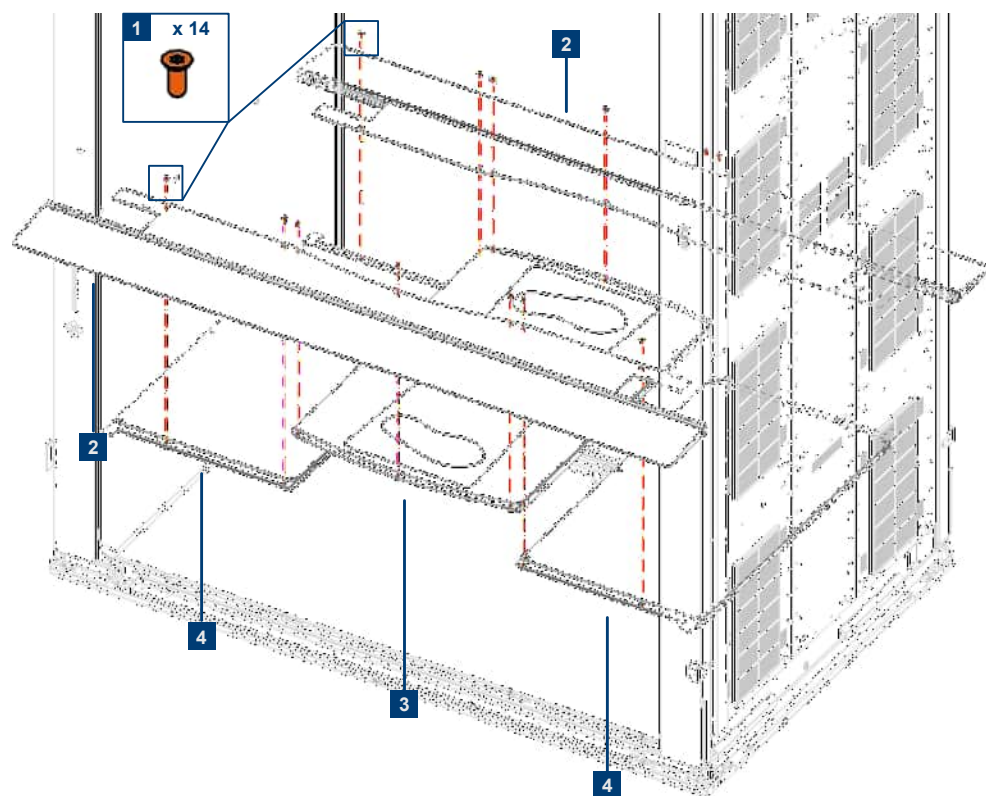


Figure 4-2: Removing the ramps

- 1 = Screw
- 2 = Ramp
- 3 = Center floor plate
- 4 = Front/back floor plate

5. Remove the 3 floor plates (3 and 4). Refer to [Figure 4-2](#).
6. Unscrew the 4 screws (1) to remove the 2 cable ducts (2). Refer to [Figure 4-3](#).

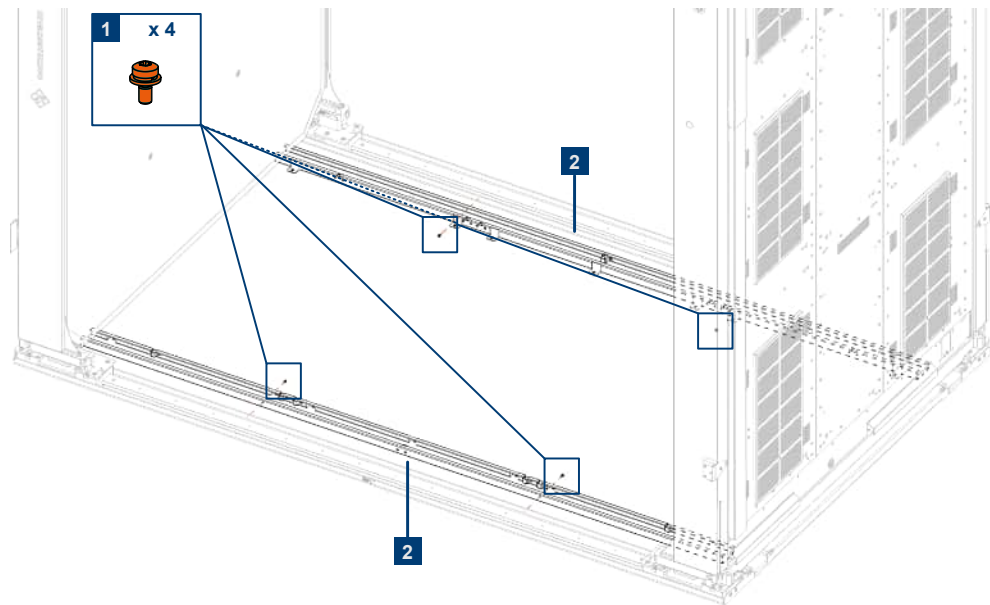


Figure 4-3: Removing the cable ducts

1 = Screw
2 = Cable duct

Installing the shoe scanner

1. Install the delivered cable ducts (1) to the R&S QPS using 4 screws (2). Refer to [Figure 4-4](#).

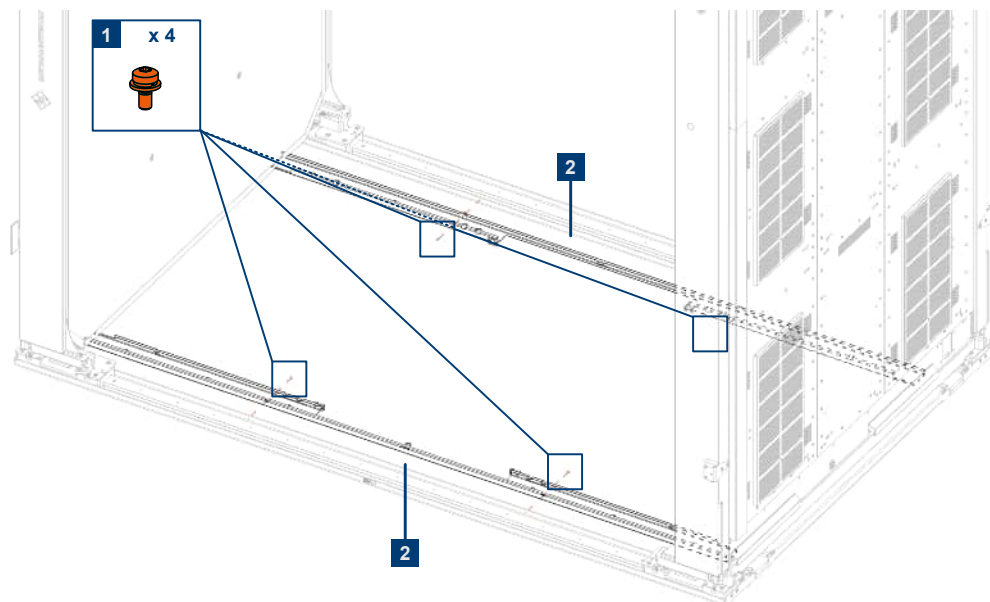


Figure 4-4: Installing the delivered cable ducts

1 = Screw
2 = Cable duct

2. Route the cables (power supply and light barrier control) through the cable duct as shown in [Figure 4-5](#).

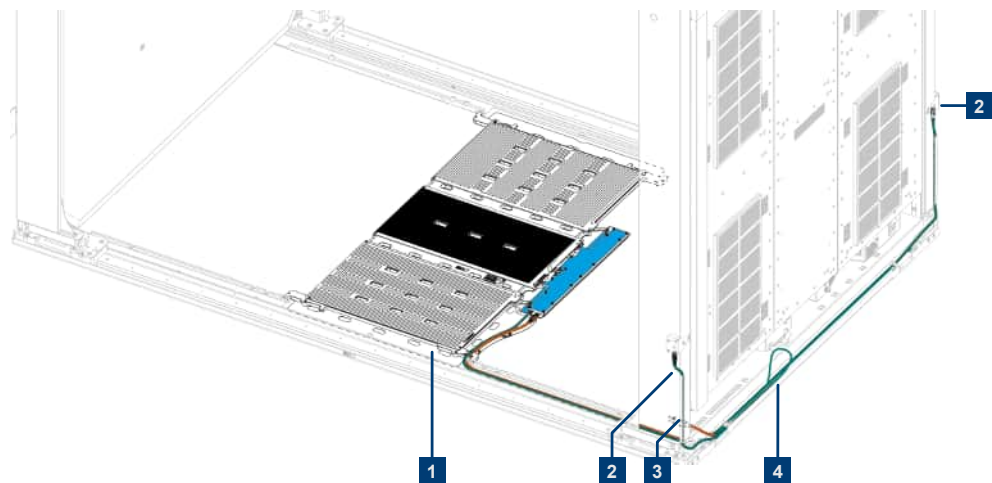


Figure 4-5: Connecting the cables to the primary panel

- 1 = Shoe scanner
- 2 = Light barrier control cable (y-cable)
- 3 = Power supply cable (USB)
- 4 = Loop in the light barrier control cable

3. Connect the cables to the primary panel.
 - The power supply cable (3) to one of the USB ports on the ExtCon board.
 - The light barrier control cable (2) to each of the transmitters on the scanner entry and exit.
If the light barrier is not installed yet, install it first. See [Chapter 4.3, "Installing the light barrier"](#), on page 20 for details.
4. Put the shoe scanner unit into the floor plate.
Make sure that the following conditions are met:
 - The electronics (1) point to the primary panel. Refer to [Figure 4-6](#).
 - The shoe scanner unit is centered in the floor plate.
 - The 4 corners (2) of the shoe scanner unit are aligned to the cable ducts. Refer to [Figure 4-6](#).

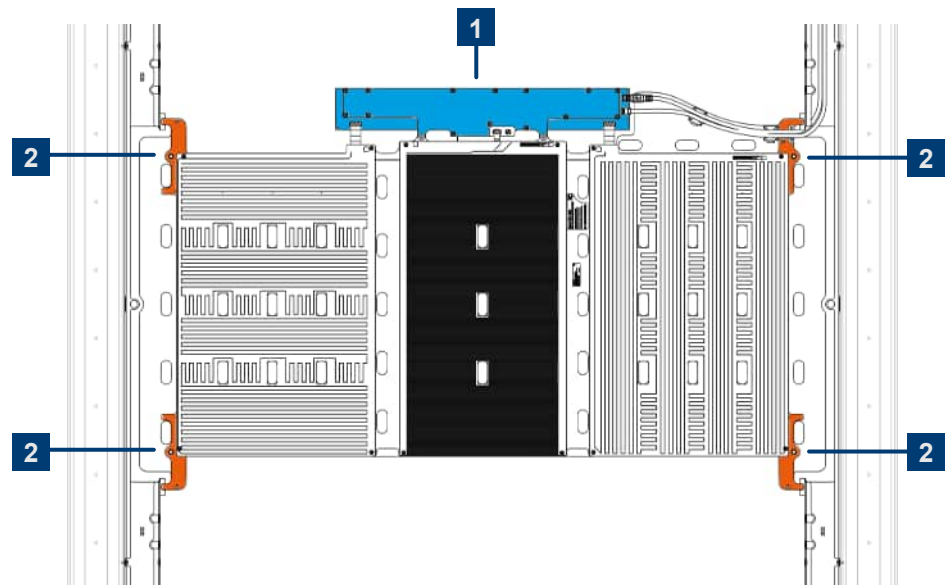


Figure 4-6: Orientation of the shoe scanner unit

- 1 = Electronics
2 = Corners

5. Connect the cables to the shoe scanner unit.

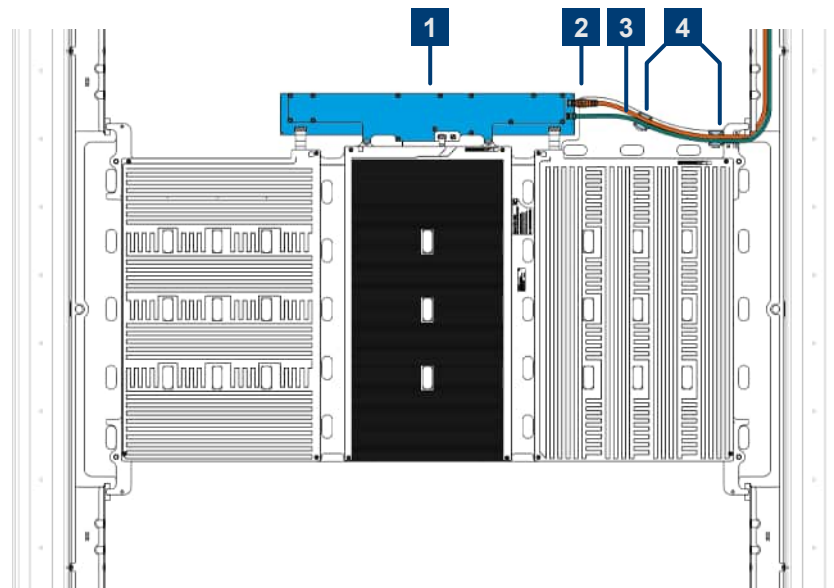


Figure 4-7: Connecting the cables to the shoe scanner unit

- 1 = Connector board of the shoe scanner
2 = Power supply cable (USB)
3 = Light barrier control cable (y-cable)
4 = Mounts for cable ties

- The power supply cable to the USB port of the shoe scanner.
- The light barrier control cable to the shoe scanner.

- Secure the cables to the shoe scanner using cable ties (4). Refer to [Figure 4-7](#). The cables must go in a straight line from the electronics to the opening in the cable duct.

Finishing the installation

- Install the center floor plate (1).
Do not move the shoe scanner unit while installing the center floor plate. We recommend installing the center floor plate with the help of another person.
- Install the 3 floor plates (1 and 2). Refer to [Figure 4-8](#).
Start with the center floor plate (1).

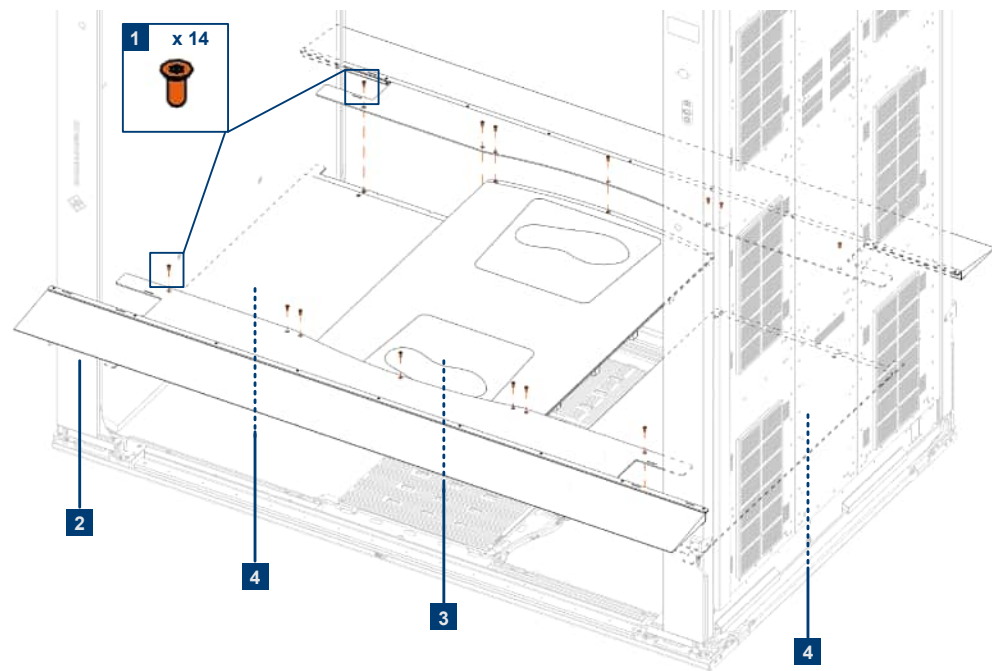


Figure 4-8: Installing the floor plates and the ramps

- 1 = Center floor plate
- 2 = Front/back floor plate
- 3 = Ramp
- 4 = Screw

- Secure the 2 ramps (3) to the R&S QPS using 7 screws (4) each. Refer to [Figure 4-8](#).
- Install the 4 covers to the floorplate. Refer to [Figure 4-1](#).
- Install the cover of the ExtCon board to the primary panel.

Troubleshooting

If the shoe scanner does not work after installation, try one of the following things.

- Check all cables if they are connected properly.

- Check if the LED on the shoe scanner connector board is blinking with the correct rhythm: 2 short blinks followed by a pause of 1 s.

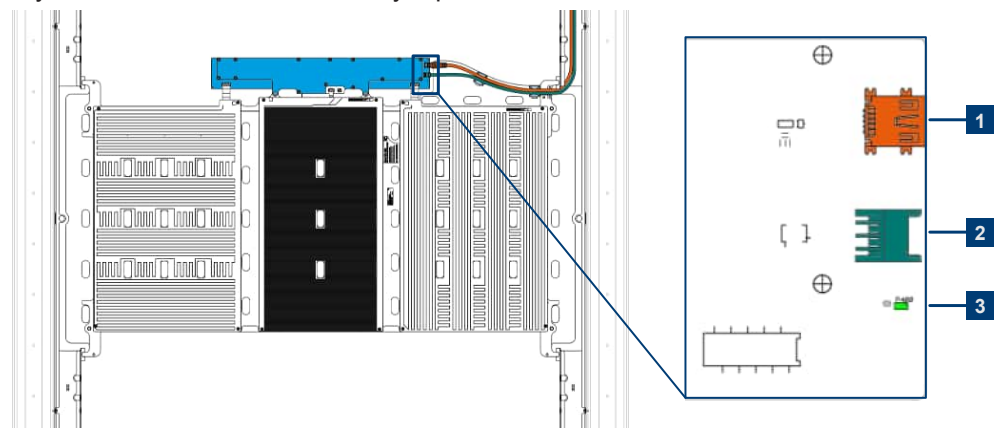


Figure 4-9: LED on the shoe scanner connector board

- Check if the shoe scanner is listed in the Windows device manager. To access the device manager, log into Windows with the service credentials. The shoe scanner is identified as "USB Serial Device (COMx)". The COM port number can be different than shown in [Figure 4-10](#).

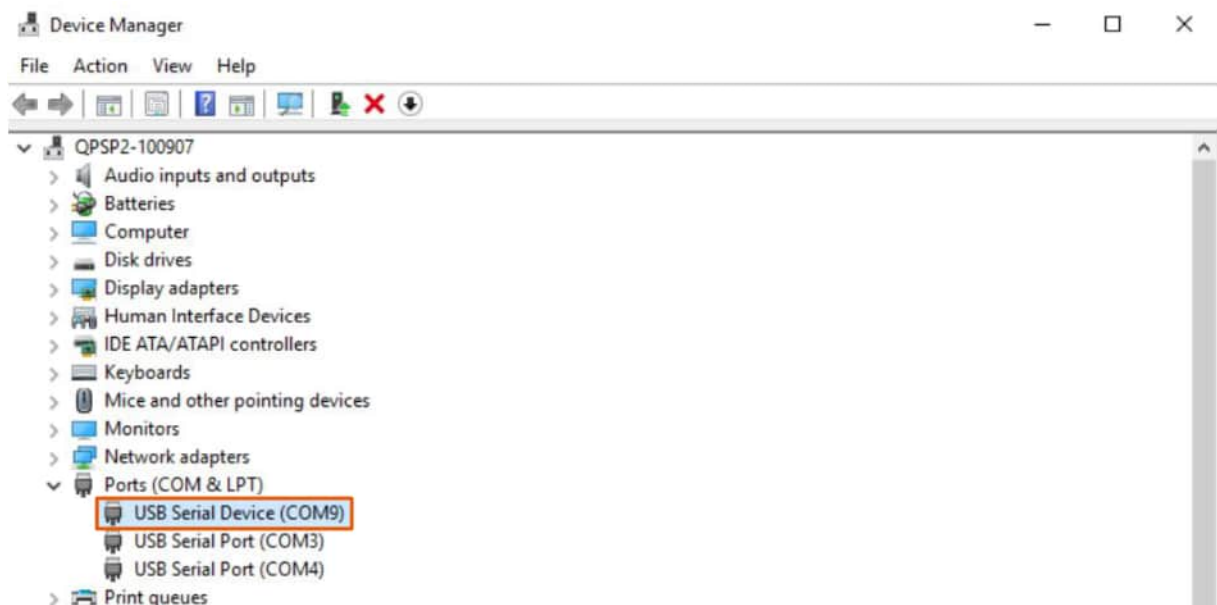


Figure 4-10: Shoe scanner in the device manager

- Reset the shoe scanner sensors ("Configuration" > "Scan" > "Shoe scanner configuration" > "Reset").
If nothing of the above helps, contact your service representative.

4.2 Installing panel frames

To install the shoe scanner, in particular the light barrier required by the shoe scanner, you have to remove the side frame elements of the scanner panels. To do so, follow the installation instructions below in reverse order.

Attaching the clip-on frame

The clip-on frames are easy to install. No tools are required. You can just clip them onto the panels.

Before you clip on the frames, check the sides of the panels for dirt (including fingerprints). If there is dirt on the panels, remove it with a soft, damp rag.

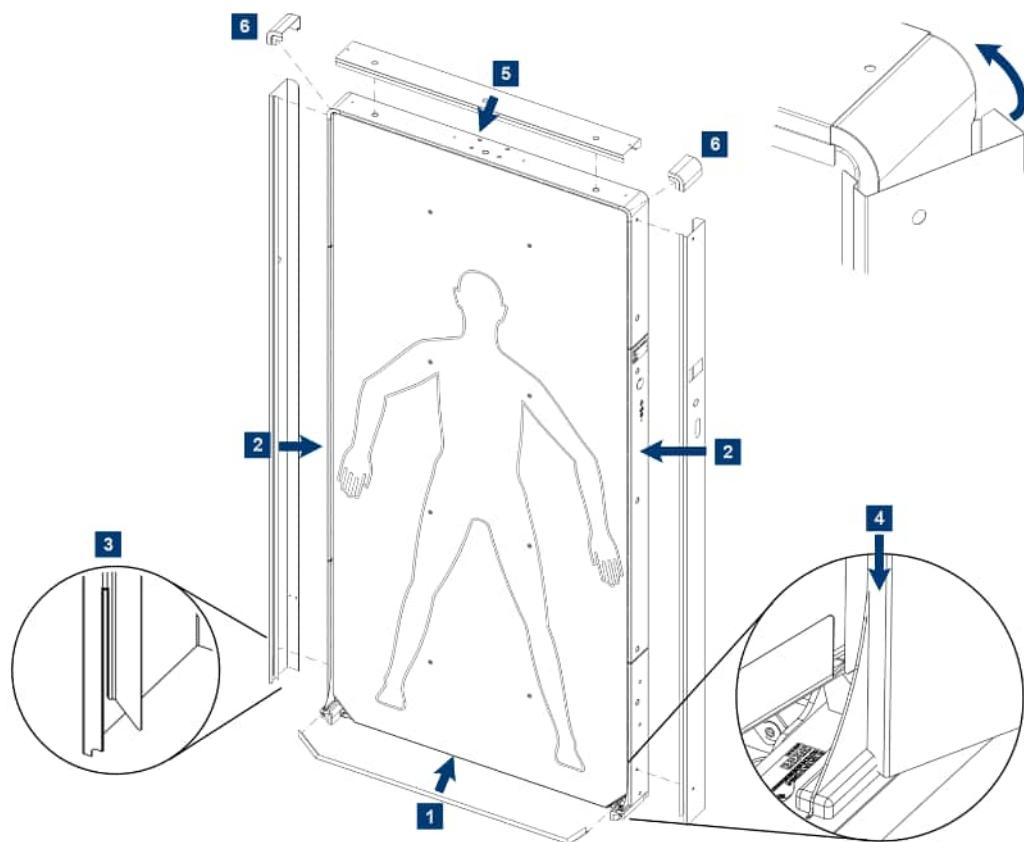


Figure 4-11: Attaching the clip-on frames

- 1 = Bottom frame element
- 2 = Side frame elements
- 3 = Cut-outs at bottom of side elements
- 4 = Fin-shaped metal sheet at bottom of panel
- 5 = Top frame element
- 6 = Caps

1. Push the frame element on the bottom into the gap between floorplate and panel.
2. Clip the frame elements to the side of the panels.

The frame elements for the sides have two different edges. The shorter frame edge faces inwards.

The frame elements for the sides also have a small cutout at the bottom of the frame. This cutout fits into the fin-shaped metal sheet at the bottom of the panel.

- a) Slide the cutout into the fin-shaped metal sheet at the bottom of the panel.
- b) Check that the frame covers the radome.
- c) Push the outer edge of the frame over the rear side of the panel until it snaps into position.
- d) Repeat for the second side frame.

Note: The panel side with the user interface (power button etc.) has a sticker with serial number and other identifiers. The frame hides that sticker. To get access to the sticker, break out the perforated circle in the frame.

3. Clip the frame element to the panel top
The frame element for the top has two different edges. The shorter frame edge faces inwards.
If necessary, use equipment that allows you to safely reach the top of the panel.
 - a) Bring the frame element on the top into position and make sure that the inner frame edge covers the radome.
 - b) Push the outer edge of the frame over the panel until it snaps into position.
4. Attach the two caps by clipping them to either side of the panel edge.

4.3 Installing the light barrier

Installing the light barrier (R&S QPS-Z190)

Install the two light barriers, one on the scanner entrance, and one on the scanner exit.

Each light barrier consists of a transmitter (active device) and a reflector (passive device). Both the transmitter and reflector are mounted on a special holder that is attached to the frame of the panel.

1. Install the two reflectors - one reflector at the scanner entrance and one at the scanner exit.
 - a) Remove the side frame elements of the secondary panel.
See "[Attaching the clip-on frame](#)" on page 19 for details.
 - b) Punch out the mounting holes that hold the reflector.
 - c) Screw the reflectors to the frame elements.
The reflector faces to the primary panel. The mount is on the inside of the frame element.

d) Reattach the side frame elements.

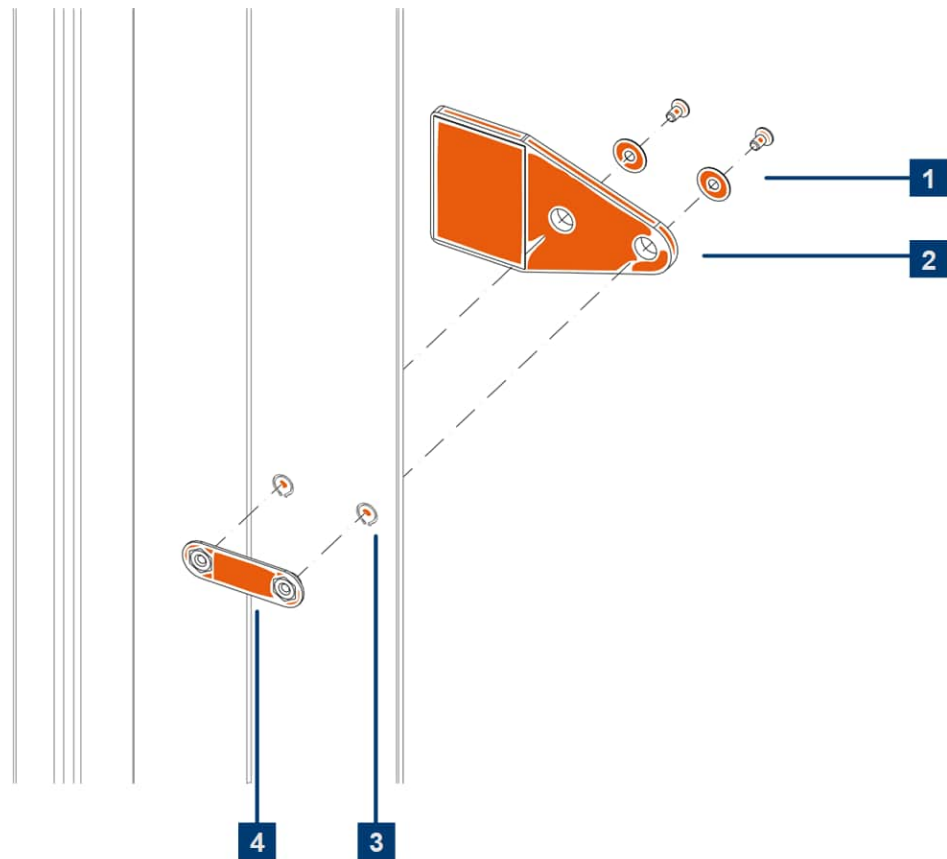


Figure 4-12: Installing the light barrier reflector

- 1 = Screws to attach reflector to mount, including washers
- 2 = Reflector
- 3 = Mounting holes
- 4 = Reflector mount attached to frame

2. Install the transmitters - one transmitter at the scanner entrance and one at the scanner exit..
 - a) Remove the side frame elements of the primary panel.
See "[Attaching the clip-on frame](#)" on page 19 for details.
 - b) Punch out the mounting holes that hold the transmitter.
 - c) Screw the holder for the transmitter to the frame elements.
The mount is on the inside of the frame element.
 - d) Screw the transmitters to the holder, one on each frame element.

e) Reattach the side frame elements.

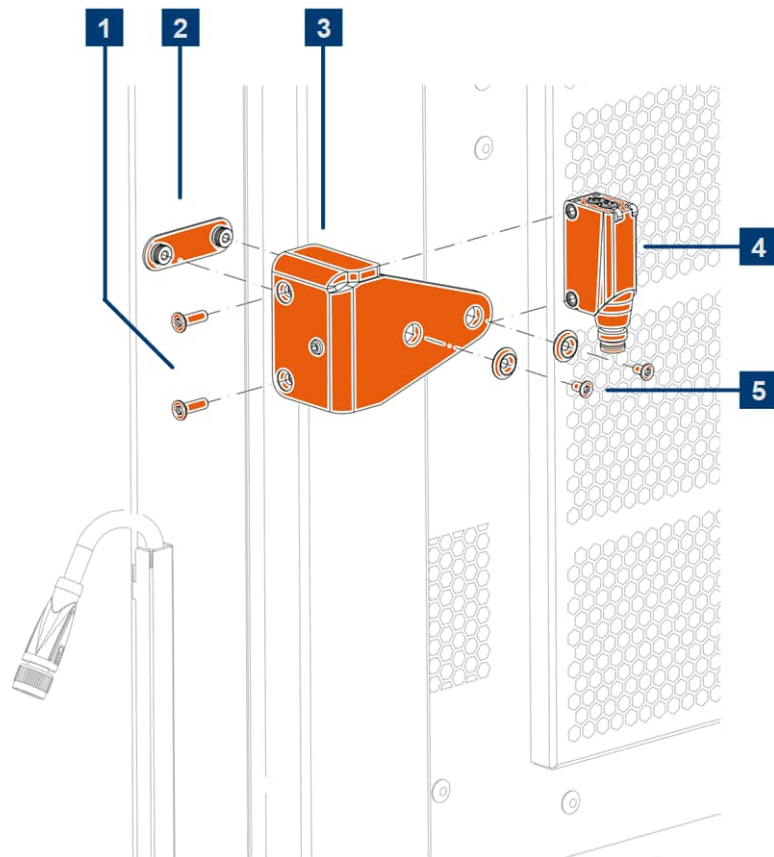


Figure 4-13: Installing the light barrier transmitter

- 1 = Screws to attach the transmitter to its holder
- 2 = Mount for transmitter holder attached to frame
- 3 = Transmitter holder
- 4 = Transmitter
- 5 = Screws to attach holder to frame, including washers

3. Connect the light barrier to the R&S QPS.

- a) Open the cover of the ExtCon board to get access to the light barrier signal cable.
- b) Connect the light barrier cable to the corresponding connector.
- c) Route the cables to the scanner entrance and exit.
The short cable goes to the scanner entrance. The long cable goes to the scanner exit.
- d) Secure the cables to the scanner with a cable tie, if necessary.
- e) Connect the cables to the transmitters.
- f) Cover the cables on the frames with the cable ducts (part of the delivery).

g) Cover the ExtCon board.

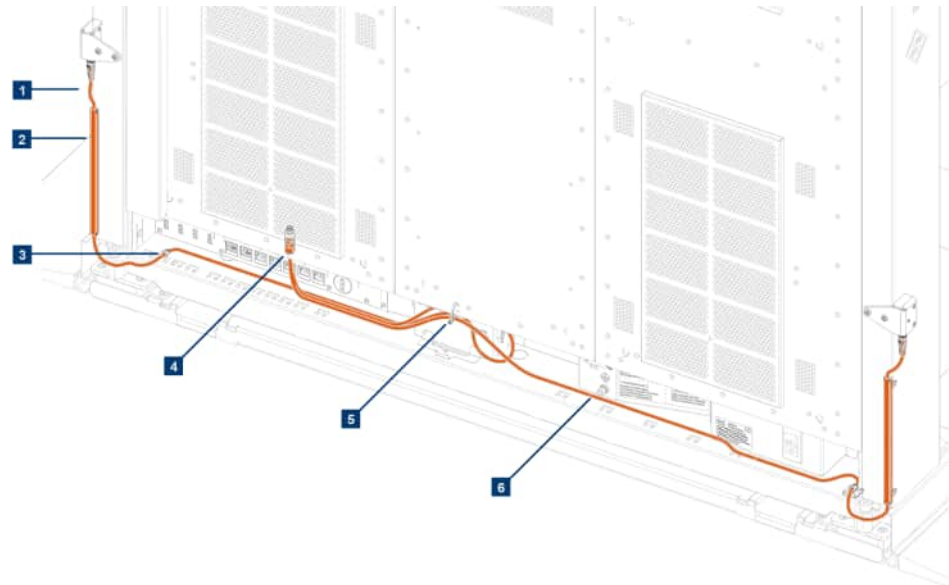


Figure 4-14: Installing light barrier cables

- 1 = Cable to the scanner entrance
- 2 = Cable duct
- 3 = Cable tie
- 4 = Connector (to light barrier controller)
- 5 = Cable tie
- 6 = Cable to scanner exit

Testing the light barrier

We recommend testing the light barrier for any errors before putting the shoe scanner into operation.

1. Select "Configuration" > "Signals".
2. Turn on "Alarm for transit without scan" if it's not active yet.
3. Select "HW Configuration".
4. Select "Start Light Barrier Test".
5. Break the light barrier at the entrance of the scanner to arm the light barrier at the exit.
Check the user interface if the breaking of the light barrier at the entrance was detected.
6. Break the light barrier at the exit of the scanner.
Check the user interface if the breaking of the light barrier at the exit was detected.
7. At this stage, we recommend to double-check if the light barriers are correctly mapped to entrance and exit.
8. Select "Stop Test".

9. Exit the menu.
10. If you do not need it: Turn off "Alarm for transit without scan".
The light barrier in the context of the shoe scanner still work without this feature.

4.4 Activating the software license

The functionality of the shoe scanner becomes available after you have activated the license with the license code that is provided with the purchase of the shoe scanner.

For more information about managing licenses, refer to the R&S QPS user manual or contact your service representative.



Reboot the R&S QPS after you have installed the license.