

HARDWARE AND AUTOMATION · MANUAL FOR THE INSTALLING TECHNICIAN

Enterprise Gate

Installation manual for remote gate opening

This manual is for the **technician installing the hardware**, not for the parking-lot operator. It covers mounting the Shelly 1 Gen4 relay, the dry-contact wiring, the connection to the Shelly cloud and the values to hand the lot owner so they can finish the setup inside ParkingPro.

Enterprise Gate is a software licence, not a hardware bundle

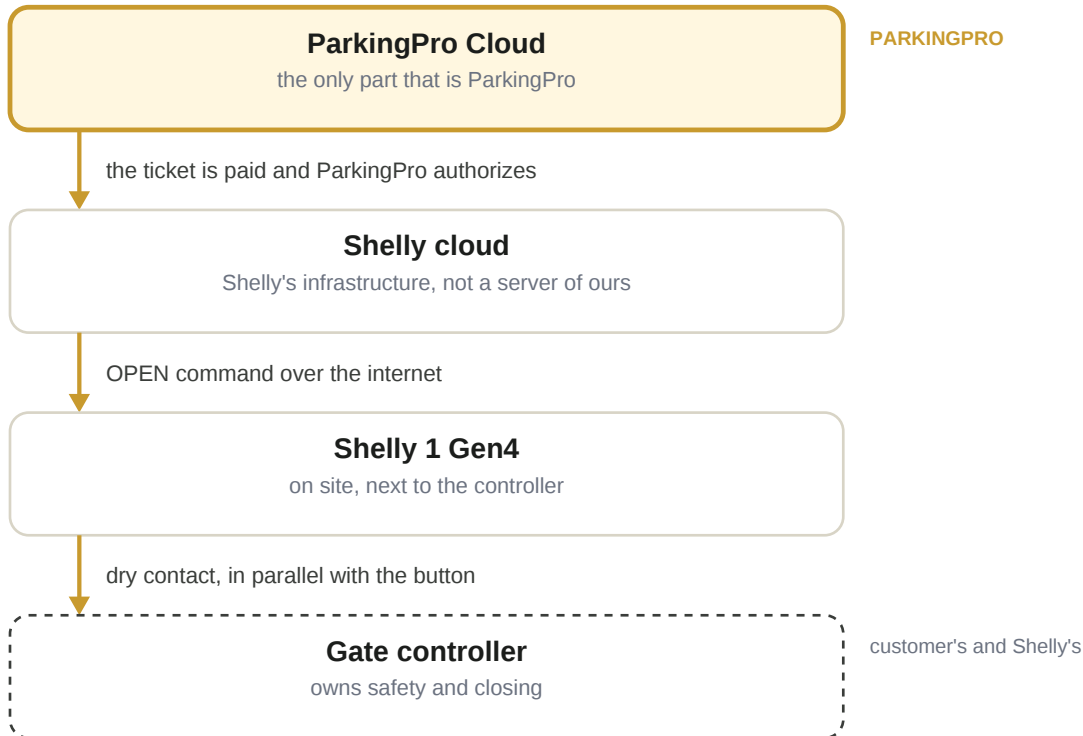
ParkingPro does not sell, ship or install equipment. The Shelly 1 Gen4, the wiring, the labour and any other material are bought and installed by the customer through their own installer or trusted technician, following this guide. What the licence turns on is the authorization software: the part that checks the ticket is paid and asks the Shelly cloud to open the gate.

Product	Enterprise Gate, remote-opening software licence
Hardware required	Shelly 1 Gen4 (Standard or UL Certified), bought by the customer
Who sells the hardware	Not ParkingPro. The customer buys it directly or through their installer
Extra equipment on site	None. No ParkingPro gateway or box is installed
Who installs it	The customer's own electrical or electromechanical technician
Who configures the software	The parking-lot administrator, inside ParkingPro

1. HOW IT WORKS

Enterprise Gate architecture

Of the four elements in the diagram, ParkingPro owns only the first one. The Shelly cloud is Shelly's own infrastructure, and the relay and the gate controller are the customer's hardware, bought and installed at their own expense.



When a ticket is paid, ParkingPro asks the Shelly cloud to send an **OPEN** pulse to the relay installed next to the controller. The relay does nothing more than imitate a press of the physical open button that is already there. **No extra ParkingPro equipment is installed on site:** the Shelly connects straight to the lot's Wi-Fi and to the Shelly cloud, exactly as in any home install done with the official Shelly app.

WARNING: the electrical work must be done by a qualified technician

The Shelly connects to the controller's push-button or dry-contact input, **in parallel with the physical button that is already there**. Never wire the gate motor directly to the Shelly, and never bypass photoeyes, safety loop, emergency stop or any other safety device.

2. LIMITS OF RESPONSIBILITY

What ParkingPro does NOT do

LIMIT OF RESPONSIBILITY, not an optional technical detail

ParkingPro **never** detects whether the vehicle drove through, **never** decides whether it is safe to close, and **never** replaces photoeyes, safety loop, emergency stop or limit switches. All of that remains the sole responsibility of the gate controller's hardware and firmware, exactly as if a person had pressed the physical button.

ParkingPro only sends authorized OPEN pulses: the one for an exit that is already paid, and the one an authorized operator asks for by hand, which is recorded with their name and the time. Nothing else. The installing technician must not wire, configure or promise anything beyond that.

What happens if the pulse fails

If the pulse fails or the Shelly cloud cannot be reached, ParkingPro shows the operator a **retry** button, and it never blocks a customer who has already paid. The gate can always be opened by hand as a fallback, just as before Enterprise Gate was installed. Explain this to the lot owner: the system never leaves anyone trapped inside because of a network problem.

Electrical rating of the Shelly 1 Gen4

Standard Up to 16 A at 240 V AC, or 10 A at 30 V DC on the output contact.	UL Certified 15 A nominal.
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In Enterprise Gate the relay is always used as a dry signal contact in parallel with the existing push button, never to power the motor. Follow the controller's manual and the label on the installed unit; if it states a lower limit, use that one. Official page: kb.shelly.cloud/knowledge-base/shelly-1-gen4

3. BEFORE YOU START

Materials needed (minimum)

This is what has to be bought and installed at the customer's expense before starting. ParkingPro neither sells nor ships it. There is no official Shelly 1 Gen4 photo under a free licence to reproduce here, because Shelly's media kit is restricted to distributors with an account, so the manufacturer's links are below instead. The two photos are real and generic, with no particular brand, taken from Wikimedia Commons under a free licence.

Shelly 1 Gen4 Standard

Dry contact, up to 16 A at 240 V AC or 10 A at 30 V DC.

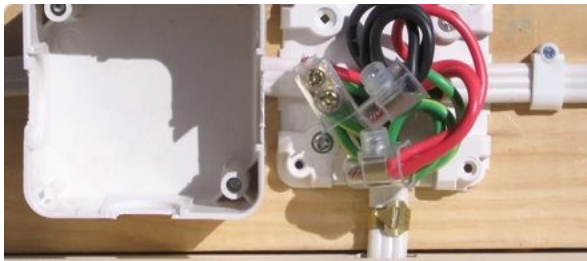
us.shelly.com/products/shelly-1-gen4

Shelly 1 Gen4 UL Certified

Dry contact, 15 A nominal, UL certified.

us.shelly.com/products/shelly-1-gen4-ul-certified

Enclosure, protections and terminal blocks



Generic example. Photo by Fredquint, Wikimedia Commons, CC BY-SA 3.0.

Wiring and connectors



Thin signal cable with ferrule connectors. Photo by Simon A. Eugster, Wikimedia Commons, CC BY-SA 3.0.

3. BEFORE YOU START

What is "the physical gate"?

The photo below is only a generic reference to the object: the vehicle barrier with its control cabinet that the lot should already have installed. **ParkingPro neither sells nor specifies any gate brand** (it can be FAAC, BFT, Nice, CAME or any other); it is simply so it is clear which physical part the rest of this guide is talking about.



Photo by Dietmar Rabich, Wikimedia Commons, CC BY-SA 4.0, cropped.
commons.wikimedia.org/wiki/File:Münster,_LVM_--_2017_--_6272-8.jpg

4. PROCEDURE

Installation steps

1 Mount the Shelly and wire the dry contact

With the gate powered down, mount the Shelly 1 Gen4 (Standard or UL depending on the gate's electrical specification) near the controller and wire its dry-contact output **in parallel with the physical open button** that is already there. Never straight to the motor, and without touching photoeyes, safety loop or limit switches: those stay under the controller's exclusive control. See the wiring diagram on page 8.

2 Connect the Shelly to the cloud

Power up the Shelly and connect it to the lot's Wi-Fi with the **official Shelly app**, the same procedure as in any home install, with nothing ParkingPro-specific in this step. Check that the lot's Wi-Fi reaches the spot where the Shelly is mounted.

3 Write down the three values the lot owner needs

From the Shelly app (in the device or account settings; the exact menu can vary by app version), write down: the **Shelly cloud host**, the device's **authorization key**, and its **ID**. These three values go straight into the ParkingPro panel. See the table on page 9.

4 Time the full cycle

With a stopwatch, measure how long the gate takes to open and close again completely after one pulse, from the moment it starts moving until the arm is fully down, and round up. That number is the **cooldown between pulses** configured in ParkingPro, which accepts 2 to 60 seconds. While the gate is still moving the system must not send a second pulse, because on a pulse-mode gate that can **reverse the movement** instead of doing nothing. This is not paperwork, it is a real safety measure.

5 Hand over the values so the owner can configure ParkingPro

The lot owner signs in as administrator and goes to **Administration > Gates > Add gate**, picks Shelly Standard or UL Certified, or the preconfigured profile that matches the installed controller (CAME G4040EZ / ZL39, FAAC 620/640 with a 624 BLD/MPS panel, Nice Wingo / WIL, BFT GIOTTO with a MERAK panel, or ZKTeco ProBG), enters the name, location and entry or exit direction, and pastes the cloud host, the authorization key and the ID you wrote down, along with the measured cycle time.

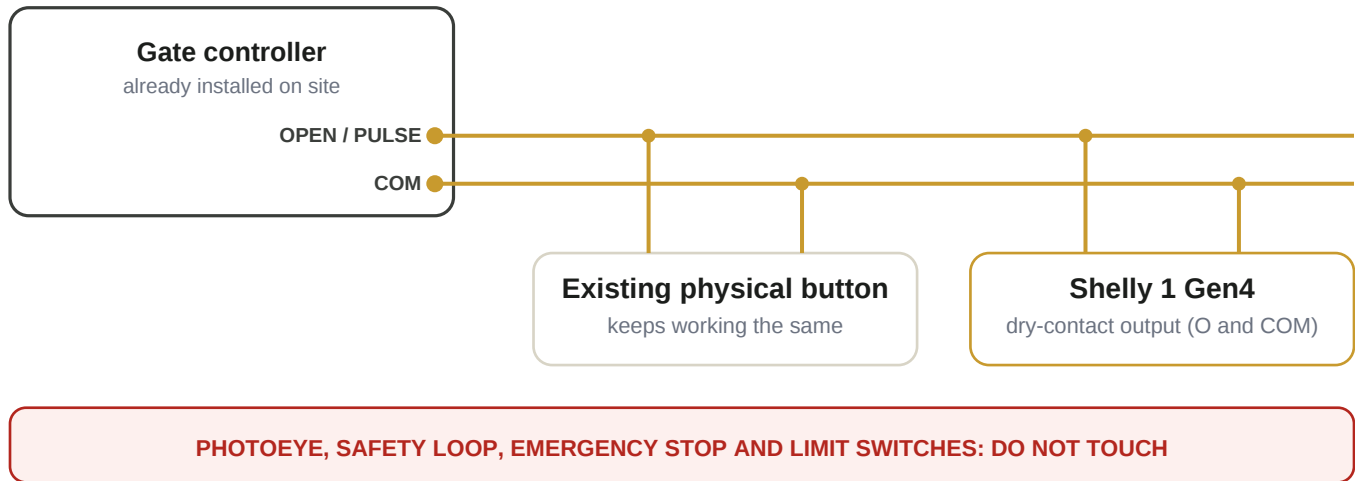
6 Confirm the test before leaving the site

Before you leave, confirm that the lot owner (or you) tapped **Test connection**, which queries the device status in the Shelly cloud without opening the gate and shows its signal level, and then **Open test gate**, which does send the real pulse. Check that the gate opened once, with no vehicles or people in the movement area. Do not call the installation finished without this test.

5. WIRING DIAGRAM

Dry contact in parallel with the button

Simplified diagram of the wiring described in step 1. Always follow the manual of the controller installed on site: the exact position of the OPEN/PULSE and COM terminals varies by manufacturer.



The Shelly never replaces the button

Both stay connected in parallel to the same two terminals. Never wire the Shelly straight to the motor or to the photoeye, safety-loop or limit-switch terminals: those stay exactly as they were before the Shelly was installed.

6. HANDOVER FOR THE LOT OWNER

Values to write down on site

Write down these four values during the installation and hand them to the lot owner. They will need them to finish adding the gate inside ParkingPro (Administration > Gates > Add gate).

Value	Where it comes from	Written down on site
Shelly cloud host	Shelly app, device or account settings	_____
Authorization key	Shelly app, device or account settings	_____
Device ID	Shelly app, device settings	_____
Cycle time (open + close)	Timed on site, rounded up	_____

Before leaving the site

- ☐ The original physical button still works independently.
- ☐ Photoeye, safety loop, limit switch and emergency stop are intact and unmodified.
- ☐ The Shelly is connected to the lot's Wi-Fi and shows as online in the Shelly app.
- ☐ The full open and close cycle was timed.
- ☐ The four values in the table above were handed to the lot owner.
- ☐ "Open test gate" was run from ParkingPro and the gate opened once, with no vehicles or people nearby.

This document covers only the physical installation and the handover of values to the lot owner. The configuration inside the ParkingPro software (adding the gate, testing the connection, adjusting the pulse time) is documented in the ParkingPro Cloud operator manual, section "Set up gates with Enterprise Gate".