# Protect-Opto 603

## Article

| Item no. | Description |
|---|---|
| 177766 | **Protect-Opto 603** DUO leading photoelectric sensor for garage door openers, consisting of DUO opto-sensor set with mounting brackets, 2 door leaf junction boxes, 10 m door leaf connecting cable, spiral cable, junction box, 10 m connecting cable and EP 144 expansion board |

## Scope of delivery

- F photoelectric sensor DUO transmitter with 1,000 mm cable
- F-Light barrier DUO receiver with 1.000 mm cable
- 2 installation brackets and 2 floor installation plates
- EP 144 expansion board
- Junction box
- Connection cable 7x0,25 mm², 10.000 mm
- Spiral cable 5x0,25 mm², 1.600 mm uncoiled
- 2 gate leaf junction boxes with board OSE/8,2 kOhm
- Gate leaf connecting cable 7x0,25 mm², 10.000 mm
- Installation material

## Features

### Protect-Opto 602

#### Features

- Optical safety device to protect against personal injury and damage to property

# Spiral cable 5x0.25 mm$^2$ - 1,600 mm

## Features

- Pre-attached plug-in terminals for the control unit and a plug-in connection to the door leaf junction box reduce the connection effort, prevent connection errors and simplify installation

## Use

### Protect-Opto 602

- For controllers with connection for OSE optosensors. Not suitable for Comfort 390 plus – please use light curtain.

### Door leaf junction box OSE/8.2 kOhm

- Can only be used in conjunction with spiral cable 5x0.25 mm$^2$ or 5x0.5 mm$^2$ with plug for door leaf junction boxes

### Door leaf junction box

- For door leaf junction box for conventional safety elements

### Connecting cable

- For door leaf junction boxes

## Technical data

### Protect-Opto 602

- Connection type: Conventional
- Protection class: IP54
- Temperature (min.)[°C]: -10
- Temperature (max.)[°C]: 55
- Temperature (min./max.)[°C]: -10/55
- Range [m]: 6
- Operating voltage [V]: 4-28 V-DC
- Power consumption [VA/W/kW]: 0.12 W
- Width [mm]: 52
- Height [mm]: 331
- Depth [mm]: 153
- Weight [kg]: 1.9
- Packing width: 203
- Packing height: 68
- Packing depth/length: 389
- Packing weight: 2.153

- Freight forwarding articles: No
- GTIN: 4062434009123
- Customs tariff number: 73089098
- Country of origin 1000: Deutschland
- Garantie: –

## EP 144

- Connection type: Pluggable
- Inputs:
  1 common input and output with resistor and OSE signal processing for 8.2 kOhm contact strips or OSE opto-sensors (12 V-DC/max. 0.05 A)
- Interfaces: MS bus (RJ14 connector) OSE
- Protection class: IP00
- Operating voltage [V]: 24 V-DC
- Operating voltage type: Direct current
- Width [mm]: 30
- Height [mm]: 50
- Depth [mm]: 20

## Spiral cable 5x0.25 mm$^2$ – 1,600 mm

- Number of wires: 5
- Wire cross-section [mm$^2$]: 0.25
- Cable entry control housing: CS housing
- Length uncoiled – control [mm]: 1,600
- Turning length retracted [mm]: 800
- Turning length extended [mm]: 3,200
- Weight [kg]: 0.55
- Packing width: 0
- Packing height: 0
- Packing depth/length: 0
- Packing weight: 0.521
- Freight forwarding articles: No
- GTIN: 4062434018521
- Customs tariff number: 85444995
- Country of origin 1000: Deutschland
- Garantie: –

## Door leaf junction box OSE/8.2 kOhm

- Connection type: Pluggable
- Inputs:
  1 input for conventionally wired contact strips or opto-sensors
  2 inputs for conventionally wired slack rope switches or wicket door contacts
- Outputs:
  1 output with socket (Molex 6-pin) for spiral cable with plug (Molex 6-pin)

- Protection class: IP54
- Temperature (min.)[°C]: –20
- Temperature (max.)[°C]: 60
- Temperature (min./max.)[°C]: –20/60
- Width [mm]: 165
- Height [mm]: 60
- Depth [mm]: 40
- Weight [kg]: 0.1
- Packing width: 88
- Packing height: 88
- Packing depth/length: 173
- Packing weight: 0.109
- Freight forwarding articles: No
- GTIN: 4062434018538
- Customs tariff number: 85444290
- Country of origin 1000: Deutschland
- Garantie: –

## Door leaf junction box

- Connection type: Pluggable
- Inputs:
  1 input for conventionally wired contact strips or opto-sensors
  2 inputs for conventionally wired slack rope switches or wicket door contacts
- Protection class: IP54
- Temperature (min.)[°C]: –20
- Temperature (max.)[°C]: 60
- Temperature (min./max.)[°C]: –20/60
- Width [mm]: 165
- Height [mm]: 60
- Depth [mm]: 40
- Weight [kg]: 0.1
- Packing width: 90
- Packing height: 70
- Packing depth/length: 203
- Packing weight: 0.11
- Freight forwarding articles: No
- GTIN: 4062434016084
- Customs tariff number: 85444290
- Country of origin 1000: Deutschland
- Garantie: –

## Junction box

- Protection class: IP55
- Material: PP

- Color: Gray
- Installationarea: On the wall
- Width [mm]: 85
- Height [mm]: 85
- Depth [mm]: 37

## Connecting cable

- Number of wires: 7
- Wire cross-section [mm$^2$]: 0.25
- Cable length [m]: 10
- Packing width: 185
- Packing height: 38
- Packing depth/length: 237
- Packing weight: 0.461
- Freight forwarding articles: No
- GTIN: 4062435000617
- Customs tariff number: 85444210
- Country of origin 1000: Deutschland
- Garantie: -