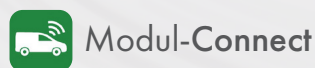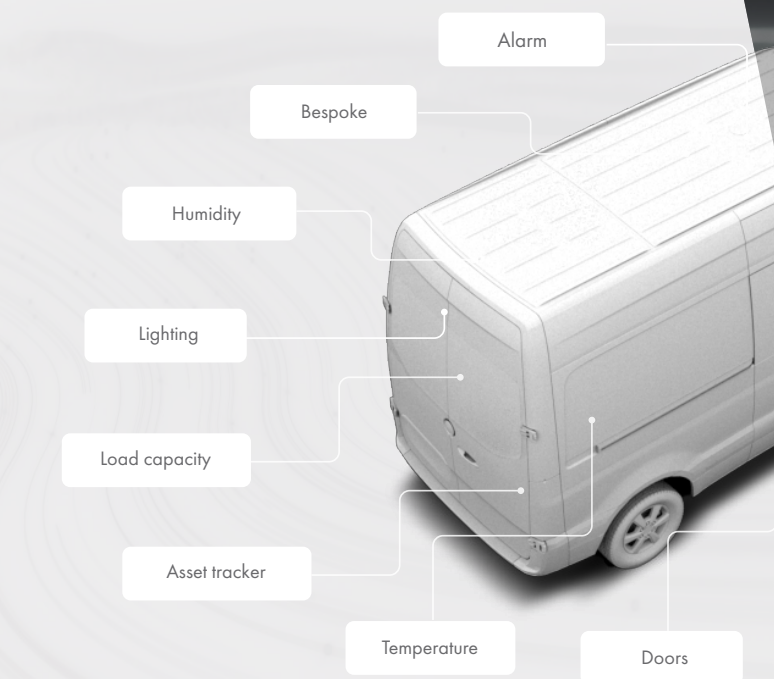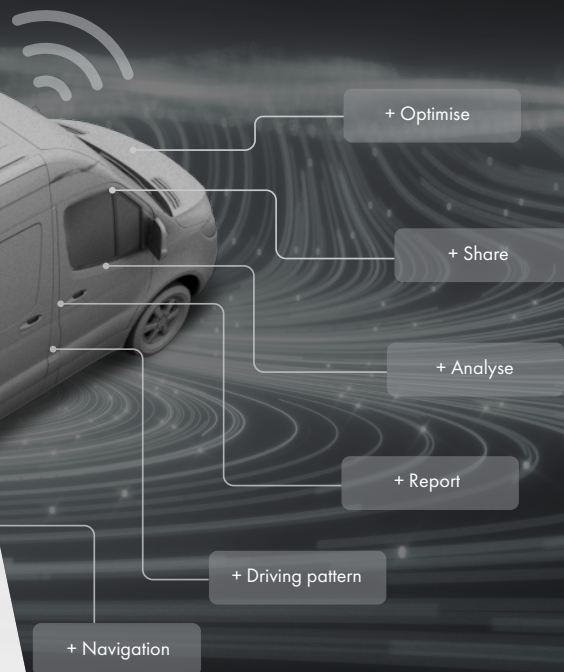## The idea

Modul-**Connect** PRO brings vehicle fleets to life. A powerful control box in every vehicle provides value-adding functionality, giving both the driver and support teams access to real-time data. The smartphone revolutionised the way people connect. Now Modul-**Connect** PRO is about to give the same freedom within vehicle fleet management.

Alarm

Bespoke

Humidity

Lighting

Load capacity

Asset tracker

Temperature

Doors

+ Optimise

+ Share

+ Analyse

+ Report

+ Driving pattern

+ Navigation

Modul-**Connect**

Modul-**Connect** PRO
MANAGE YOUR VEHICLE FLEET

## Modul-**Connect**

Modul-Connect is a unique and robust platform for all digital and electrical devices in commercial vehicles. The system is quick and easy to install and being independent of the OEM's electrical system and any other vehicle electrics, it offers maximum reliability.

Modul-Connect consists of a versatile control box with high-capacity outputs, which all offer individual settings for battery guard and/or timer. Additionally, it has inputs which can be used for switching from signals and to control outputs. Three CAN channels enable direct integration with the vehicle or additional systems as may be required. Bluetooth communication allows for wireless switches with a range of up to 100 m. The electrical products can be managed using the Modul-Connect App from a phone or tablet (iOS or Android), a battery driven remote control, or powered switches with or without display.

The system is extremely intelligent and allows for advanced programming. For example, it can turn the work lights off when releasing the handbrake. Using a weighing system, the driver can be alerted when the vehicle is over-weight.

## Modul-**Connect** PRO

The Modul-Connect PRO can do everything the Modul-Connect system can. In addition, it allows you to monitor and manage your vehicle fleet.

Equipped with a SIM card, the Modul-Connect PRO system sends all data to the cloud for visualisation in the Web Portal. Portal access can be granted on any level, for example by country, region, or department.

In the Web Portal, all vehicles are displayed in a list and on a map where you can follow their current position, route, battery level and, if a weighing system is installed, the current weight. If the system detects a sensor value outside the allowed range, a warning is displayed on the map.

All data is stored and using the calendar function you can easily review previous routes, driving patterns and warnings.

With the driving journal service, reports are generated with exact routes, driving pattern and road toll passages. The driver can categorise the trip as business or personal, which comes in handy when preparing the monthly tax report.

## Stretch the limits

Control your load



# PREVENT VEHICLE OVER-WEIGHT

**Are you struggling with your vehicles being over-weight? The on-board vehicle weighing system monitors the vehicle weight in real-time. The weight is shown on a display switch panel, mobile phone or tablet and is presented in relation to the payload.**

The system gets its data from sensors installed on the vehicle suspension and enables the driver to monitor the front axle, rear axle and total weight of the vehicle. The system is extremely precise with an accuracy of +/- 2.5 % when close to maximum payload.

The display switch panel, with a high-quality OLED screen, is designed to fit in the cab area of the vehicle. Backlit switches make it easy for the driver to see which accessories are turned on. A mobile phone or a tablet (iOS/Android) can be used in combination with, or instead of, the display switch. The Modul-

Connect App, with user-friendly graphics, warns the driver when the vehicle is close to maximum load.

With a Modul-Connect PRO system installed, it is possible to monitor the weight of each vehicle in the Modul-Connect Web Portal. The part of the route where a vehicle was over-weight will be shown in red on the map. A report with historic warning messages per day and route can be easily generated.

## Plan with precision
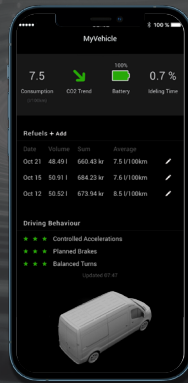
Find your optimal driving pattern

# PLAN WITH PRECISION

You can acquire valuable insights by monitoring your fleet. By optimising the routes, both kilometres and valuable time can be saved. In the Modul-Connect Web Portal, all your vehicles are visualised with their exact position and driven route, battery level and load weight from the weighing system. For vehicles with sensors installed, you will be able to follow the statistics, and if the weighing system alarms, you will be notified. All data is stored, and you can easily analyse historic values. In addition, you can create different kinds of reports, which can be exported to other formats and shared for further analyses to optimise the business. Based on local regulations and guidelines, it is also possible to set which data will be visible for each user.

Using our Driving Journal service, precise reports can be generated from the system. You will be able to see all routes, kilometres driven and road toll passages. The driver can categorise the trip as business or personal using the mobile phone. The compiled data can be exported to Excel and used as a basis when creating the monthly tax report to the finance department.

Using the Driving Behaviour service, it is possible to detect acceleration, heavy braking and unbalanced turns. In addition to the traffic safety aspect, this information can be used to minimise fuel consumption and emissions and prolong the lifespan of the vehicle's tires, brakes etc.

Modul-**Connect** PRO:

# Share data wherever you are

Modul-**Connect** PRO: On the road
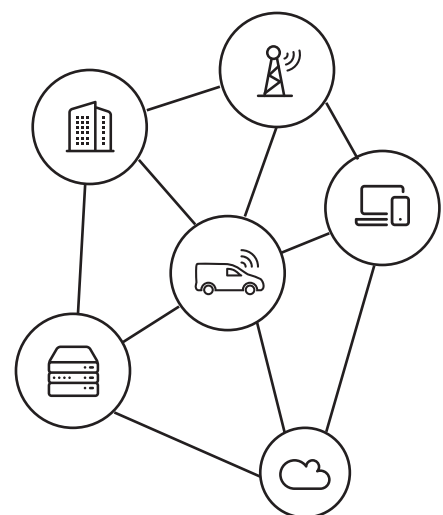
Modul-**Connect** PRO: On the road

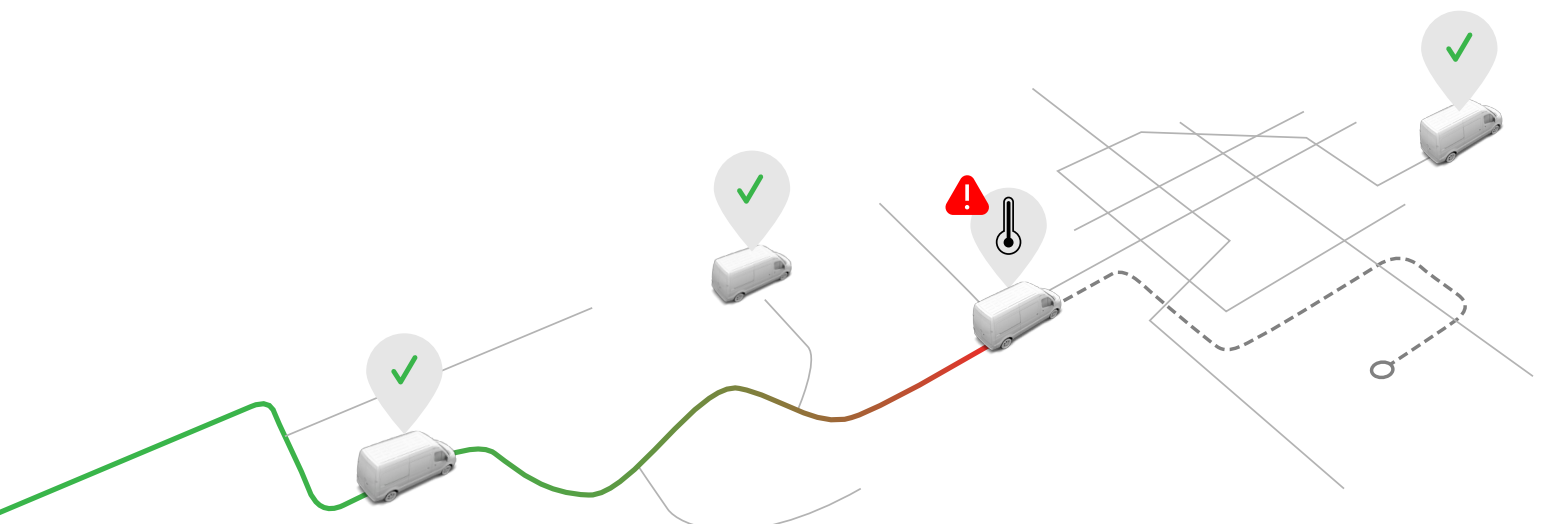# Monitor the chain

Prevent failure

-18°

4.8°

# SENSORS

Are you carrying temperature sensitive equipment? With a wireless humidity and temperature sensor you can monitor the climate in the vehicle and get notified if it gets too warm or too cold. With a Modul-Connect PRO system you can also be alerted when away from the vehicle, and as a fleet manager you can see warnings from all vehicles in the Web Portal.

We are also offering PIR sensors, which can turn on the lighting or other equipment when movement is detected.

## Secure your gear

Track your tools

AG 230-24D is out of range
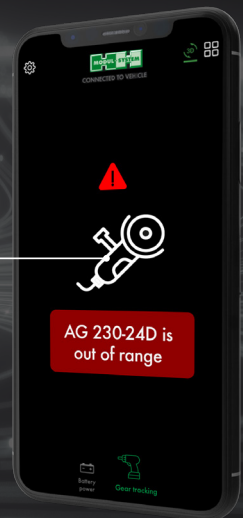
# ASSET TRACKERS

Tired of tools and equipment being forgotten at different worksites? By bonding asset trackers to valuable or business sensitive equipment, you can make sure not to leave anything behind. Several trackers can be connected to a vehicle, and when out of range, a notification will show on the Modul-Connect App. If connected to a Modul-Connect PRO system, warnings will also be displayed in the Web Portal. The activation range can be adjusted to suit your requirements.
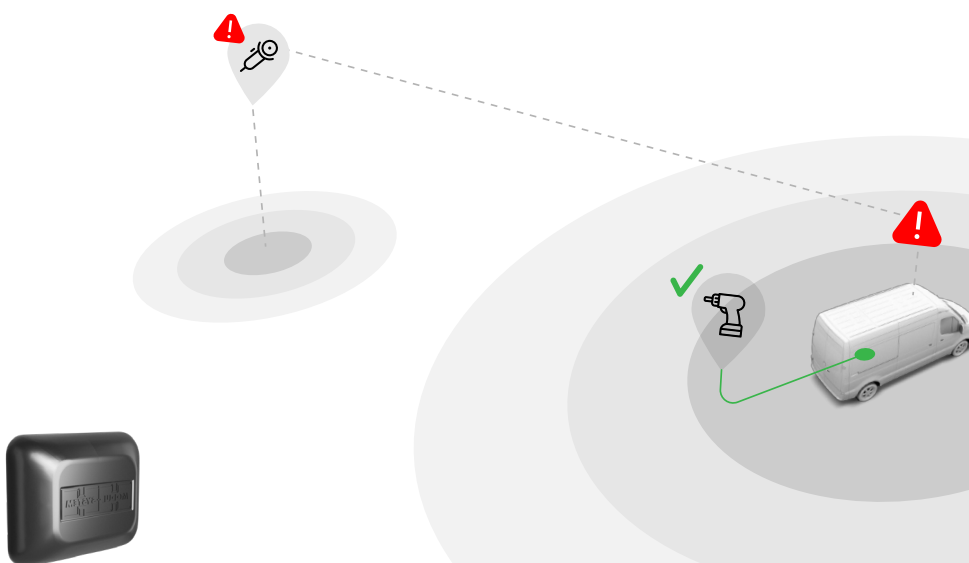
The asset trackers are designed for harsh environments. Being both waterproof, impact resistant and shock proof, the small asset trackers can be bonded to basically any equipment. The built-in battery is designed to last for approximately 5 years.

# MODUL-CONNECT PRODUCTS



Modul-Connect main box

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24000-03 | 260 | 47 | 166 | 1.2 |



Modul-Connect PRO main box

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24000-032 | 260 | 47 | 166 | 1.2 |



Modul-Connect Interior antenna

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24380-03 | 161 | 77 | 16 | 0.2 |

Modul-Connect Exterior antenna

| | | | | |
|---|---|---|---|---|
| 24390-03 | 80 | 74 | 26 | 0.4 |



Modul-Connect remote control

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24030-03 | 57 | 23 | 73 | 0.1 |

Suitable with remote control holder 24230-03



Modul-Connect Backlit switch panel

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24035-03 | 57 | 26 | 73 | 0.1 |



Modul-Connect display switch panel

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24040-03 | 185 | 23 | 58 | 0.2 |



Modul-Connect on-board vehicle weighing system

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24050-03 | - | - | - | 2.9 |
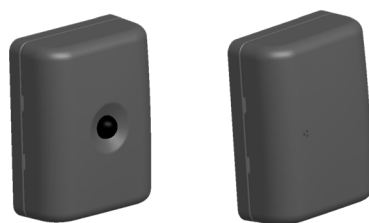


PIR sensor

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24300-03 | 56 | 25 | 72 | 0.1 |

Available May 2021

Temperature sensor

| | | | | |
|---|---|---|---|---|
| 24310-03 | 56 | 25 | 72 | 0.1 |

Available June 2021



Asset tracker

| 🛒 | ⬚ | ⬚ | ⬚ | kg |
|---|---|---|---|---|
| 24350-03 | 45 | 11 | 35 | 0.1 |

Available July 2021

## Battery Charger DC-DC 30A

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 21500-04 | 205 | 56 | 144 | 3.2 |

## Power inverter

| | 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|---|
| 400W | 21040-03 | 218 | 152 | 66 | 1.1 |
| 600W | 21060-03 | 237 | 175 | 89 | 2.0 |
| 1000W | 21100-03 | 320 | 175 | 87 | 2.7 |
| 2000W | 21200-03 | 414 | 230 | 110 | 5.2 |
| 3000W | 21300-03 | 539 | 230 | 115 | 7.0 |

## RJ11 interface cable

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 24100-03 | 150 | 10 | 10 | 0.1 |
| 24110-03 | 300 | 10 | 10 | 0.1 |

## 12Vdc power socket

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 22033-03 | 55 | 89 | 50 | 0.1 |

## 12Vdc power socket / USB socket

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 22034-03 | 100 | 85 | 50 | 0.1 |
| 22035-03 | 100 | 85 | 50 | 0.1 |
| 22036-03 | 100 | 85 | 50 | 0.1 |

[1] 12Vdc power socket + USB 5V 1A/2.1A
[2] 12Vdc Double power socket
[3] 12Vdc Double USB power socket

KIT

## Kit - Airtronic D2

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 26002-032[1] | - | - | - | 8.3 |

## Kit - Airtronic D4

| 26004-032[2] | - | - | - | 14.6 |
|---|---|---|---|---|

## EasyStart Pro Timer TP7.1 (Airtronic/Hydronic)

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 26040-03 | 82 | 37 | 12 | - |
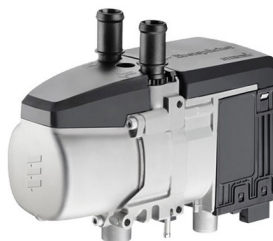
## Hydronic S3 Economy D4E 12V CS

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 26030-03 | 215 | 91 | 120 | 2.0 |

### U-kit

| 26031-03 | 370 | 380 | 150 | 1.0 |
|---|---|---|---|---|

## MSN Airtronic Vehicle Installation D2/D4/D4+

| 🛒 | ⬌ | ⬍ | ↕ | kg |
|---|---|---|---|---|
| 26051-03 | 350 | 155 | 90 | 2.3 |

### Beacon, amber glass 12/24V

| 🛒 | � | ⬌ | ↕ | kg |
|---|---|---|---|---|
| 19780-03 | 149 | 149 | 112 | 0.51 |



### Beacon, white glass 12/24V

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19781-03 | 149 | 149 | 112 | 0.51 |



### Beacon with magnetic base, amber glass 12/24V

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19782-03 | 188 | 188 | 112 | 1.2 |



### Beacon low, amber glass 12/24V

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19788-03 | 149 | 149 | 70 | 0.3 |



### Lightbar

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19790-03 | 343 | 238 | 88 | 3.0 |
| 19796-03 | 608 | 238 | 88 | 4.5 |
| 19791-03 | 1137 | 238 | 88 | 8.5 |
| 19792-03 | 1269 | 238 | 88 | 9.5 |
| 19793-03 | 1401 | 238 | 88 | 11.0 |



### Drawer / shelf light

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19710-03 | 320 | 17 | 17 | 0.1 |
| 19711-03 | 482 | 17 | 17 | 0.1 |
| 19712-03 | 644 | 17 | 17 | 0.2 |
| 19713-03 | 968 | 17 | 17 | 0.2 |



### Ambient light with PIR sensor

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19701-034 | 334 | 38 | 17.5 | 0.1 |
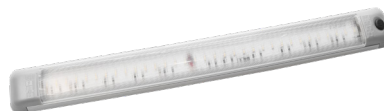


### Ambient/Workbench light with switch

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19701-032 | 334 | 38 | 13 | 0.1 |
| 19702-032 | 658 | 38 | 13 | 0.3 |
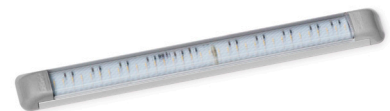


### Ambient/Workbench light

| 🛒 | | | | kg |
|---|---|---|---|---|
| 19701-03 | 334 | 38 | 13 | 0.1 |
| 19702-03 | 658 | 38 | 13 | 0.3 |
| 19703-03 | 982 | 38 | 13 | 0.4 |

## Strobe light, hide away
### 12/24V

| 🛒 | � | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19770-03 | 35 | 32 | 30 | 0,04 |
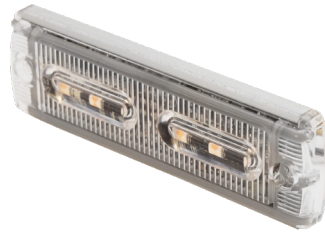
## Strobe light, extra flat
### 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19771-03 | 90 | 8 | 28 | 0,06 |

## Strobe light, flat
### 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19772-03 | 118 | 11 | 29 | 0,06 |

## Strobe light, 180 degrees
### 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19774-03 | 150 | 30 | 35 | 0.13 |
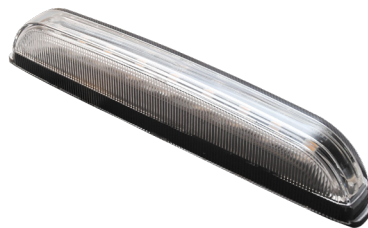
## Strobe light for grill
### 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19775-03 | 136 | 25 | 15 | 0.08 |

## Strobe light, corner
### 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19776-03 | 170 | 95 | 33 | 0.49 |

## Strobe light, wing mirrors
### (left + right)

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19777-03 | 38 | 38 | 26 | 0.4 |

## Work light
### 18W 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19760-03 | 160 | 60 | 70 | 0.45 |

## Work light with magnetic base
### 18W 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19761-03 | 160 | 60 | 65 | 0.6 |

## Work light
### 48W 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19763-03 | 110 | 60 | 139 | 0.75 |

## Work light with magnetic base
### 48W 12/24V

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19764-03 | 110 | 60 | 160 | 1.1 |

## Roof bar light, 1 pair

| 🛒 | ⬜ | ⬜ | ⬆ | kg |
|---|---|---|---|---|
| 19778-03 | 45 | 14 | 37 | 0.3 |

Available May 2021

# BENEFITS WITH THE MODUL-CONNECT
# DIGITAL WIRELESS CONTROL SYSTEM

Integrated
battery guard

Low weight

Reduced
downtime

Guaranteed for
3 years

Second life

Flexible

Stretch the
limits

Monitor the
chain

Stay up to date

Plan with
precision

Get statistics
and reports

Share data
wherever you are

## MODUL-SYSTEM LIMITED
www.modul-system.co.uk