TECHNICAL INSTALLATION MANUAL

AT-RB-700

Road Blocker

PAS68



Arma Kontrol
www.armakontrol.com
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1 Warnings and Symbols

DANGER
Indicates an obviously hazardous situation which, if not avoided, will result in death or injury.

WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or injury.

CAUTION
Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to warn against unsafe practices.

NOTICE
Indicates only situations that may result in accidents causing damage to the equipment or property damage.

INFORMATION
This symbol indicates useful tips or additional information.

Electric Current
Indicates components and operations that involve a risk of electric shock.

Personal Protective Equipment
Indicates the use of safety shoes, work gloves and protective goggles.

Waste Electrical and Electronic Equipment
This product bears the separate collection symbol for waste electrical and electronic equipment.

2 Environmental Health and Risks

Packaging materials (plastic, polystyrene, etc.) are a potential hazard source and must not be discarded into the environment or left within reach of children.

3 Warranty

Provided that all work is carried out in accordance with the Operating and Installation Manual and that no unauthorised intervention is made inside the units, the PAS68 product and all its mechanical and electrical components are guaranteed for 2 years.

4 Declaration of Conformity

We declare that our products are under our responsibility. Our product has been designed and manufactured, within the scope of Machinery Directive 2006/42/EC, to be integrated into another system or combined with other barriers in order to form a barrier system. It meets the essential health and safety requirements of the EU directives listed below:

- 2006/95/EC Low Voltage Directive
- 2004/108/EC Electromagnetic Compatibility Directive

5 Competent Personnel

Assign qualified technical personnel holding a service competence certificate to product installation, assembly and commissioning, maintenance and repair work. Intervention by unauthorised persons can cause serious damage. The manufacturer is not liable for risks arising from the user's choice of personnel.

6 General Safety Precautions

Do not install the product in environments with a risk of explosive gas. Gas or highly flammable vapours carry a serious risk of danger. Before installation, keep the area clear of all situations involving a risk of impact, cutting or dragging. Be aware of the hazardous area required by the applicable regulation. For installations that must be carried out in hazardous areas, plan and implement all safety permits and the relevant structural changes in advance.

The installation stages must be clearly shown in the boom barrier system manual. Before making the power connection, make sure the phases correspond to the mains power supply.

When working on electronic components, use an earthed, antistatic conductive wrist strap or gloves. The manufacturer is not liable for risks arising from the use of incompatible parts not specified in the manual or from incorrect technical interventions.

Safety devices (photocell, loop detector, etc.) must be installed in accordance with the applicable laws and directives. Select the system suitable for the installation, taking into account the safety requirements and the difficulties arising from the boom barrier system.

During installation, maintenance and repair, disconnect the power supply before working on live electrical parts. To prevent uncontrolled operation, keep remote control units and other receiver devices away from children; do not allow children near the boom barrier while work is in progress.

Maintenance, repair and direct interventions must be carried out only by personnel holding an authorisation certificate. Use only original spare parts for repairs and replacements. Make sure the existing structure complies with the standards in terms of strength and stability.

> ⚠ Before installation, maintenance and repair, disconnect the power to the unit panel and release the hydraulic pressure.

7 Some Special Definitions

Accessories: Equipment that must be installed in accordance with the instructions specified in the documents supplied with the product.

Optional Equipment: Equipment specified in the manual that is suitable for use with the product.

Equipment Supplied On Site: Equipment that must be used at the installation site in accordance with the instructions specified in the manual, but that is not supplied by Arma Kontrol.

8 Introduction

Thank you for choosing the AT-RB-700 Road Blocker.

This manual, supplied with the product, contains very important information and instructions on assembly, installation, commissioning and maintenance work, and must be read carefully. All assembly and installation must be carried out in accordance with this manual.

Definition: A high-security barrier product with an automatic system, specially designed to prevent the passage of unauthorised and unpermitted vehicles.

Scope: This manual has been prepared so that technical service teams and users can complete and continue their work safely.

Model Designation: PAS68 — Road Blocker

Product Label: According to the European Machinery Directive, the product label must be clearly visible and permanently fixed to power-driven machinery. The product label is located on the outside of the electrical panel cover.

Technical Stages: The descriptions and images in this manual are not binding. The manufacturer reserves the right to modify the product design and the essential features of the equipment, or to make any necessary changes, for technical and commercial reasons, without prior notice.

9 Technical Specifications

Model	PAS68
Height	700 mm
Width	2000 - 3000 - 4000 - 5000 - 6000 mm
Sheet Thickness	10 mm
Moving Part / Sheet Type	ST 37-3 N / ST 44-3
Moving Part Surface	Primer + Top coat paint
Outer Sheets	Galvanised
Mounting Points	M10 x 20 countersunk head stainless steel bolt (stainless)
Opening-Closing Time	6-8 s
Control Panel	PLC
System Safety Support	Loop detector system
Operation Type	Hydraulic
Operating Pressure (min.)	60 bar / 870 psi
Operating Pressure (max.)	140 bar / 1450 psi
Hydraulic Oil	32 / 46 cSt @ 40°C
Unit Operating Voltage	3ph AC 380V (±10) 50/60 Hz.
Operating Temperature Range	-25 °C / +60 °C
Manual Lowering	Ball valve
Product Certificates	CE, Domestic Goods Certificate
Quality Management System	ISO (20000-1:2011, 9001:2015, 10002:2018, 14001:2015), OHSAS 18001:2007
Colour	RAL 9005 - Top Cover: RAL 1028

10 Hydraulic Oil Viscosity - Temperature Diagram

To ensure efficient and reliable operation of the hydraulic system, hydraulic oil with a suitable viscosity value must be used. The viscosity of the oil changes depending on the operating temperature. The diagram below shows the viscosity characteristics of hydraulic oils of different ISO VG grades as a function of temperature change.
The nominal kinematic viscosity values at 40°C of oils in the ISO VG 32 and ISO VG 46 grades are 32 cSt and 46 cSt respectively.

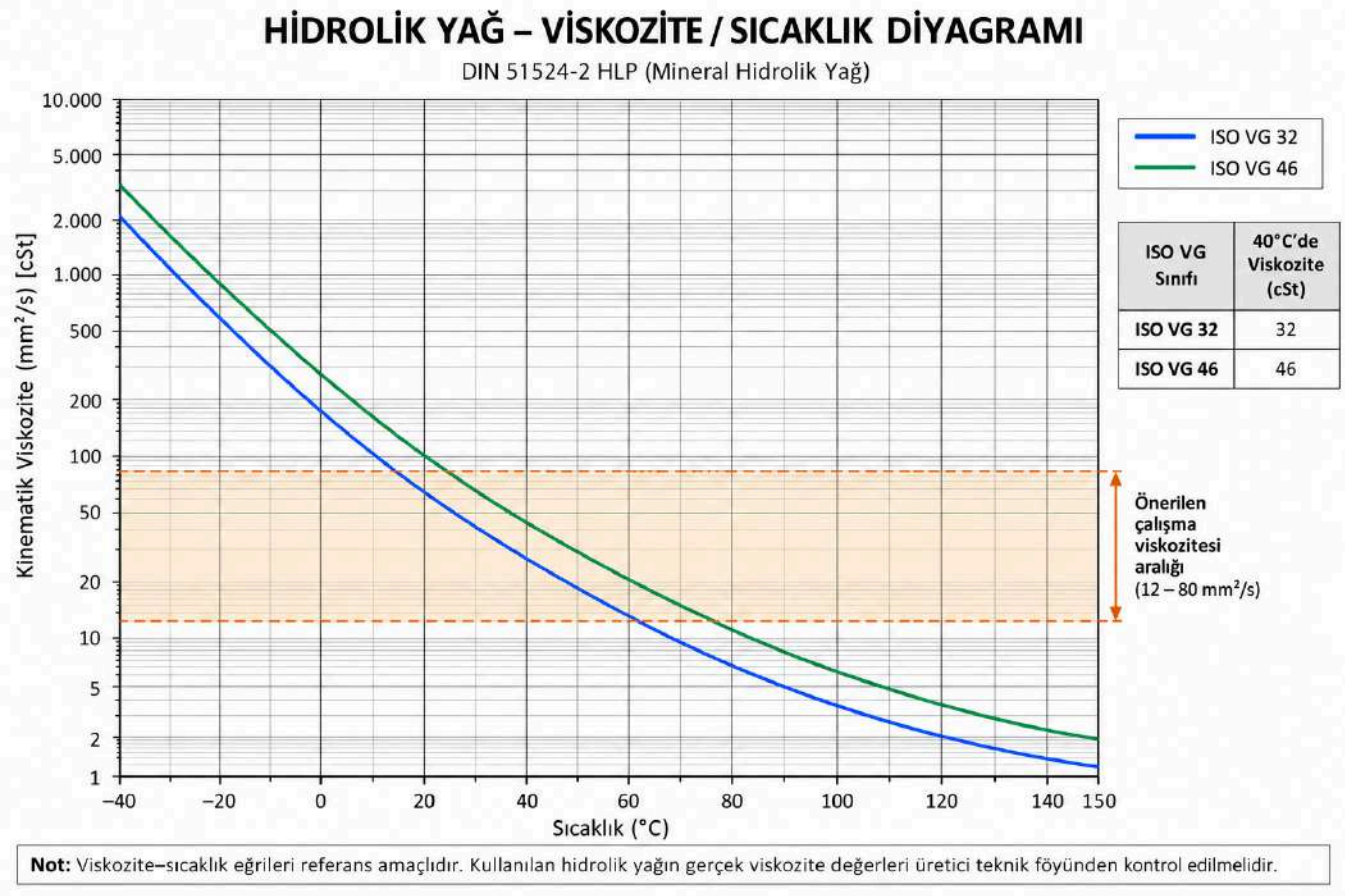


Figure 1 — New image area

⚠ Determine the oil selection and operating temperature taking into account the technical specifications of the hydraulic system used and the recommendations of the oil manufacturer.

11 Optional Accessories

Battery Backup
Allows the system to continue operating in the event of a power failure.

Hydraulic System Heating - Cooling
May be required in certain climatic conditions.

Warning Equipment
Flashing light / traffic light.

Emergency Lift
Provides lift in 2 seconds with the support of a nitrogen tank.

Manual Lifting
A lifting lever is added to the hydraulic unit.

12 Overview

The dimension drawing below shows the basic external dimensions of the road blocker, the opening angle of the moving part, and the dimensions of the body that remains below ground level. The dimensions vary according to the width and height of the model.

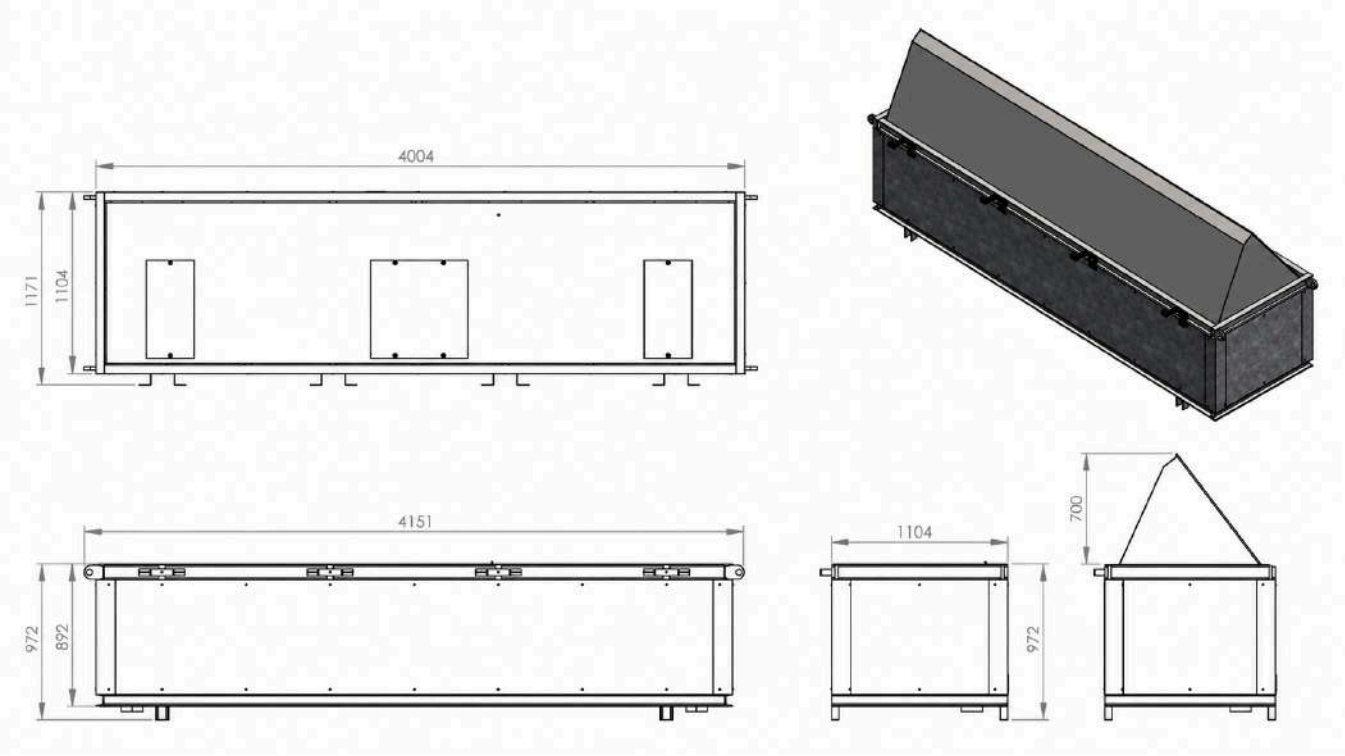


Figure 2 — Overview Dimensional Drawing

13 Detail Views

These are detail drawings showing the road blocker's access covers, hydraulic and limit switch connections, and hinges of the moving part.

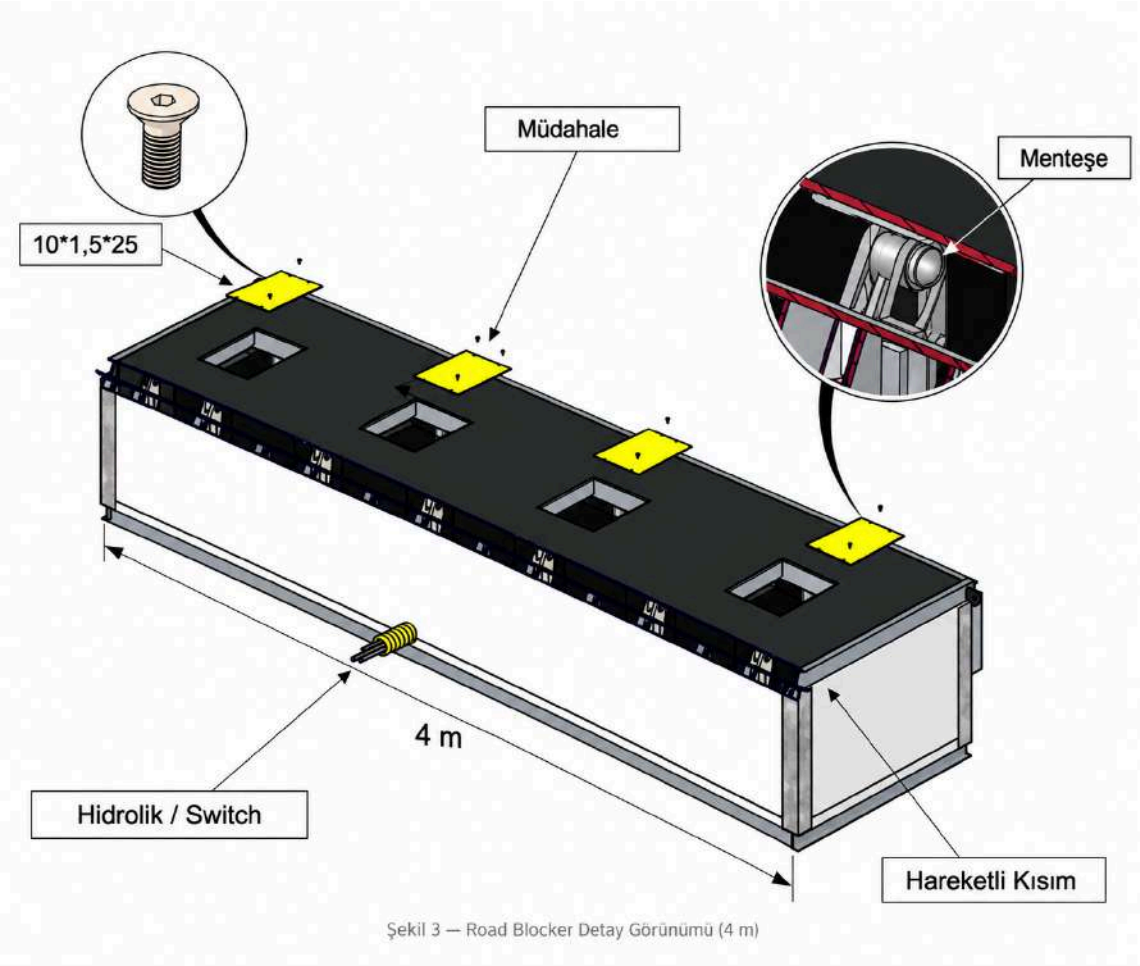


Figure 3 — Road Blocker Detail View

14 Transport

The product is protected from environmental conditions by controlling packaging waste and using materials that comply with regional regulations. Transport information may vary depending on product groups and equipment options; exact information is given in the packing list document provided by the manufacturer. The product is shipped in two separate packages: the barrier body, and the hydraulic system and unit panel.

- Road Blocker — 1 pc
- Unit Panel — 1 pc
- Hydraulic Hoses — 8 metres
- Remote Control — 2 pcs
- Loop Cable — lengths vary according to the project
- Open / Close Button — 1 pc

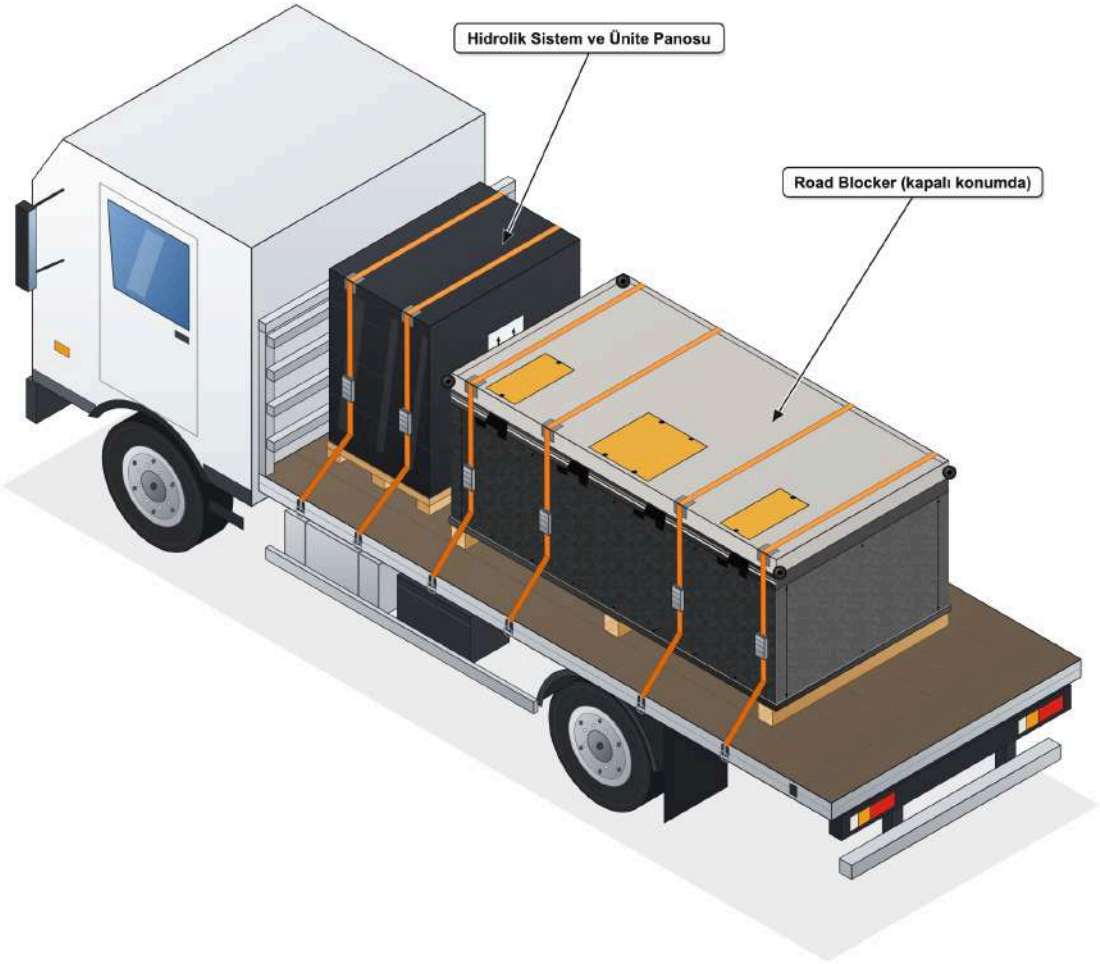


Figure 4 — New image area

15 Removing the Product from the Packaging

A crane must be used to position the barrier in the appropriate location. Centre the barrier carefully and in a controlled manner over the moisture drainage channel.



Figure 5 — Unpacking and Lifting

⚠ Do not stand under the load during lifting; make sure that the capacity of the lifting points and slings is suitable for the product weight.

16 Assembly and Installation

Check the existing underground utility lines when carrying out excavation work at the installation site. The material must be undamaged and complete, in accordance with the parts list / order form. Tools, measuring equipment and auxiliary equipment must be ready at the installation site. The voltage value must comply with the unit panel installation instructions.

Determine and prepare the location of the control cabinet according to the layout plan. The moisture drainage pipes and sewage system must be undamaged. Give the moisture drainage pipes a drainage slope, and equip the installation ground with concrete and moisture drainage channels. Protect the moisture drainage channels (pipes) from gravel, concrete, dirt, etc.

Required equipment:

- Warning signs

- Tape measure
- Spirit level
- Multimeter
- Alignment gauge - string - straightedge
- Spray paint (for marking excavation boundaries)
- 100 mm diameter PVC drainage pipe
- Basic electrical consumables (terminal block - electrical tape)
- 100 mm diameter corrugated inner duct pipe, for cable and hydraulic line
- Polyurethane foam
- Ready-mixed concrete C30
- Reinforcing steel

⚠ Close vehicle and pedestrian traffic at the installation site; secure the area around the excavation with warning signs and tape.

17 Excavation Works

Adequate moisture drainage must be provided when building the foundation. Ensure that the ground has good water-absorption properties. Depending on local environmental and soil conditions, drainage can be carried out with an electric pump (optional) in a pump sump.

Foundations must be prepared according to the site plan and structural project. The foundation of the unit panel must be prepared at the start of the installation process. It is recommended to prepare the reinforcement after the boom barriers have been placed on the prepared concrete foundation and their connections have been made. Reinforcement details will be given in the project.

The infrastructure (conduit) for the hydraulic and cable connections between the boom barriers and the unit panel must be prepared.

⚠ Take the necessary shoring and safety precautions against the risk of collapse at the edges of the excavation.

18 Measurement and Marking

To determine the excavation area, mark the excavation boundaries accurately with spray paint. Ensure the hard ground layer is completely cut through to prevent unwanted cracking at the edge line; otherwise, extra separation may occur in the asphalt layer.

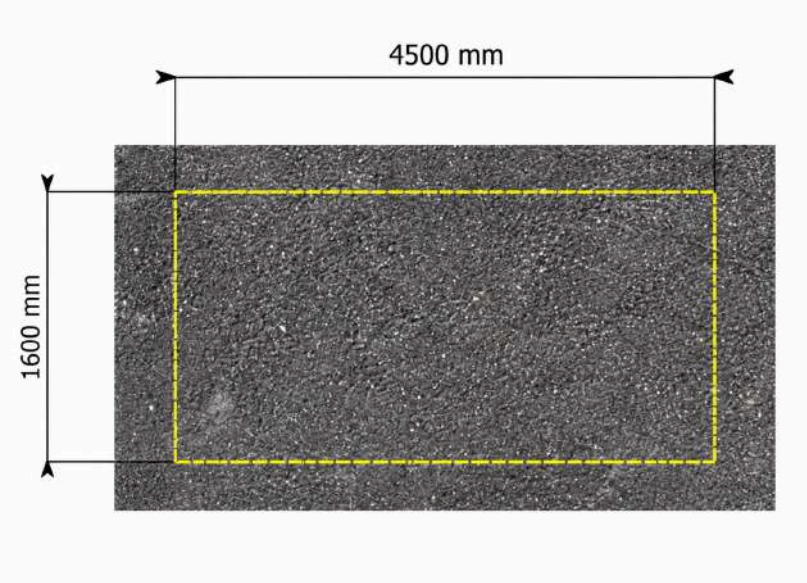


Figure 6 — Measurement and Marking

19 Hardcore

The application area is calculated by including the hardcore (can be crushed stone or gravel, 100 mm) and the level required for the moisture drainage system (250 mm).

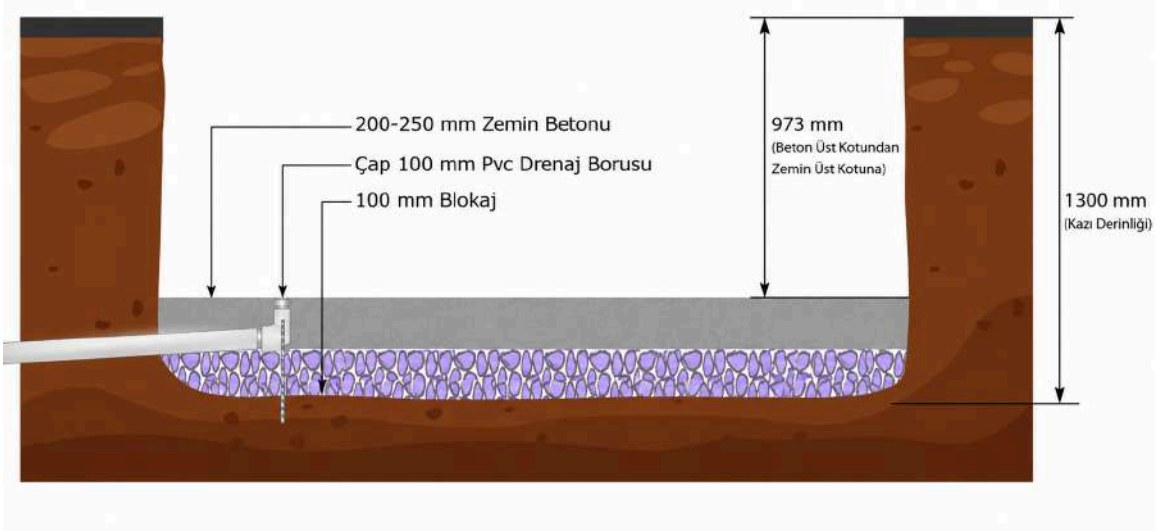


Figure 7 — Hardcore Application

20 Moisture Drainage System and Slope Provision

As shown in the drainage detail, the PVC pipe (Ø100-150 mm) to be used for moisture drainage is bedded with grade 1 or 2 gravel. Before pouring the concrete, fix the position of the drainage line to the wet ground with iron connectors.

If the drainage line has no slope or becomes blocked, water will accumulate inside the body, damaging the hydraulic and electrical components.

21 Pouring the Concrete Foundation

For the boom barrier to be correctly positioned on the surface, the surface of the freshly poured concrete must be levelled before it begins to set (within 1 hour). A wooden or steel trowel can be used.

Screeding must be carried out in the direction of the concrete pour. It should generally be carried out in the direction of the short edge of the concrete area.

22 Levelling Checks

After the boom barriers have been positioned on the ground, they must be levelled using a spirit level. You may need tools to achieve levelness (string, or a wooden or metal straightedge).

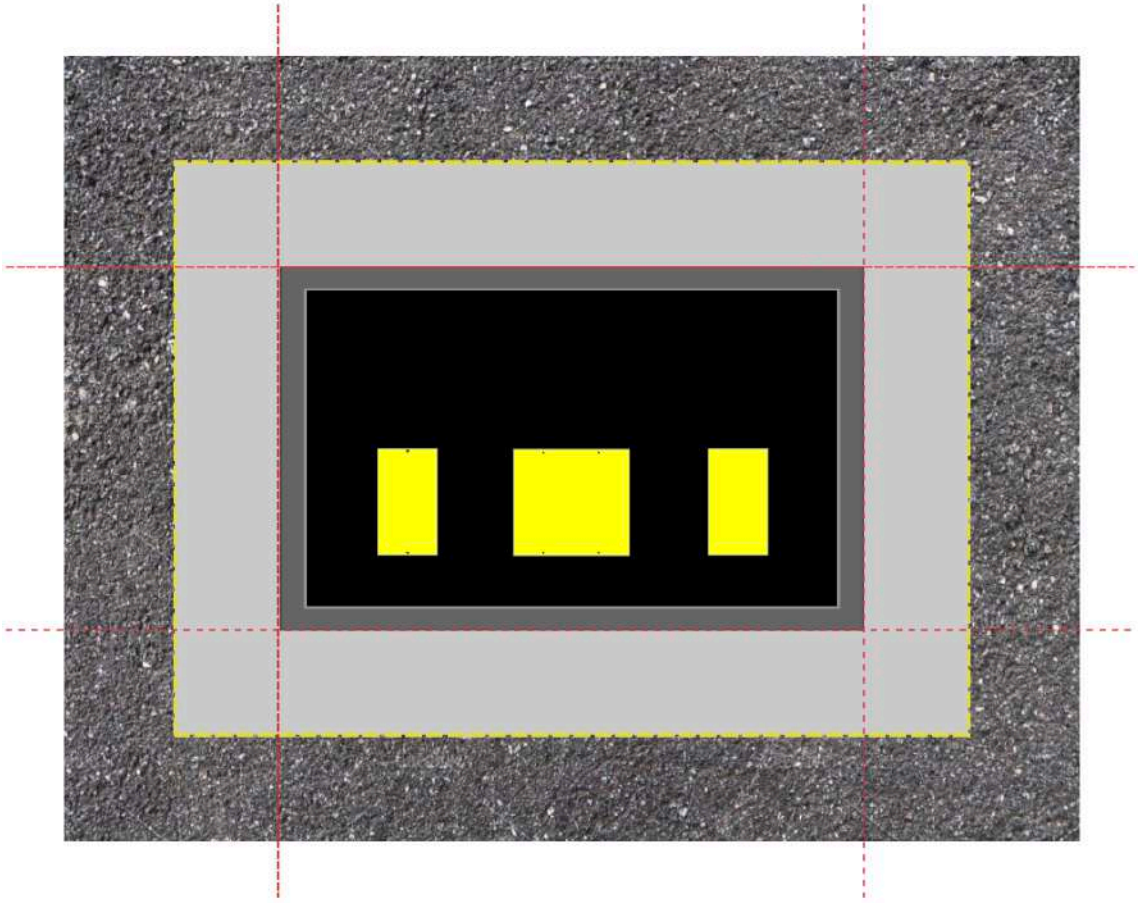


Figure 8 — Levelling Check

ⓘ An installation that is not level puts strain on the moving part and causes premature wear on the hinges.

23 Making the Hydraulic Connections

Hydraulic connections are made according to the following rules:

- Line A enables the barriers to move downward.
- Line B enables the barriers to move upward.
- Checking the leak-tightness (by observation) of the connection elements after connecting is important.
- Use the values in the torque table for an ideal connection.

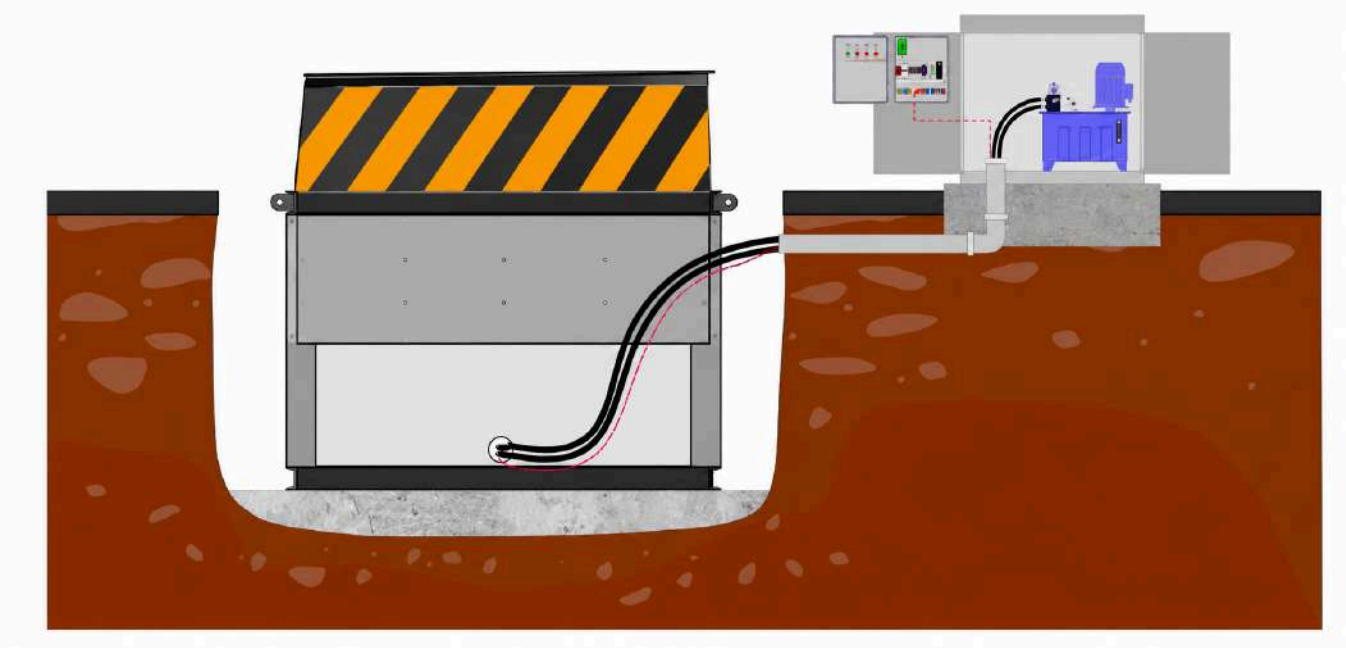


Figure 9 — Hydraulic Connection Diagram

⚠ Do not pressurise the system until the leak-tightness of the hydraulic connections has been checked. Oil under pressure can penetrate the skin and cause serious injury.

24 Steel Reinforcement

The information required for the steel reinforcement suitable for your project is provided by our project department. Use slit corrugated inner duct cable protection to protect your cables and connection hoses from the concrete.



25 Concrete Pouring

Certain points must be observed to achieve high efficiency in concrete pouring. The most common problem on site is that extra water is added to the concrete at the pour location because the concrete cannot be placed and screeded easily. This reduces the strength of the concrete. The problem can be resolved by ordering concrete of the correct consistency, using plasticising chemical additives, and, in particular, using a vibrator on site.

- Pour concrete as close as possible to the location where it will be placed.
- Avoid piling concrete in one area and moving it into place with a shovel.
- Place concrete in homogeneous layers.
- Prevent large piles and sloping layers from forming during placement.
- Do not pour concrete from a height greater than 1.5 m.
- Match the placement rate of the concrete to its compaction rate.
- Do not allow delays or interruptions, and do not allow cold joints to form as a result.

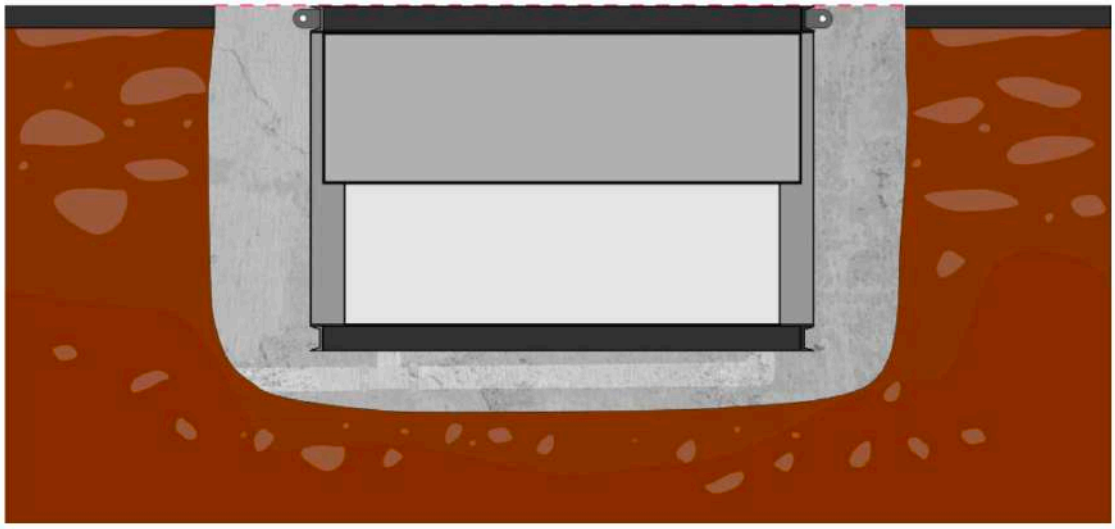


Figure 11 — Concrete Pouring

ⓘ Concrete that leaks into the housing causes the moving part and the hinges to jam; this is not covered by the warranty.

26 Positioning the Unit Panel

Create a cable duct in the ground before pouring the concrete. When positioning the cable duct in the ground, take into account the slot under the unit panel.

The unit panel foundation is formed with 100 mm hardcore, Q131/131 steel mesh and 200 mm concrete. A wiring slot 1000 mm long is left.

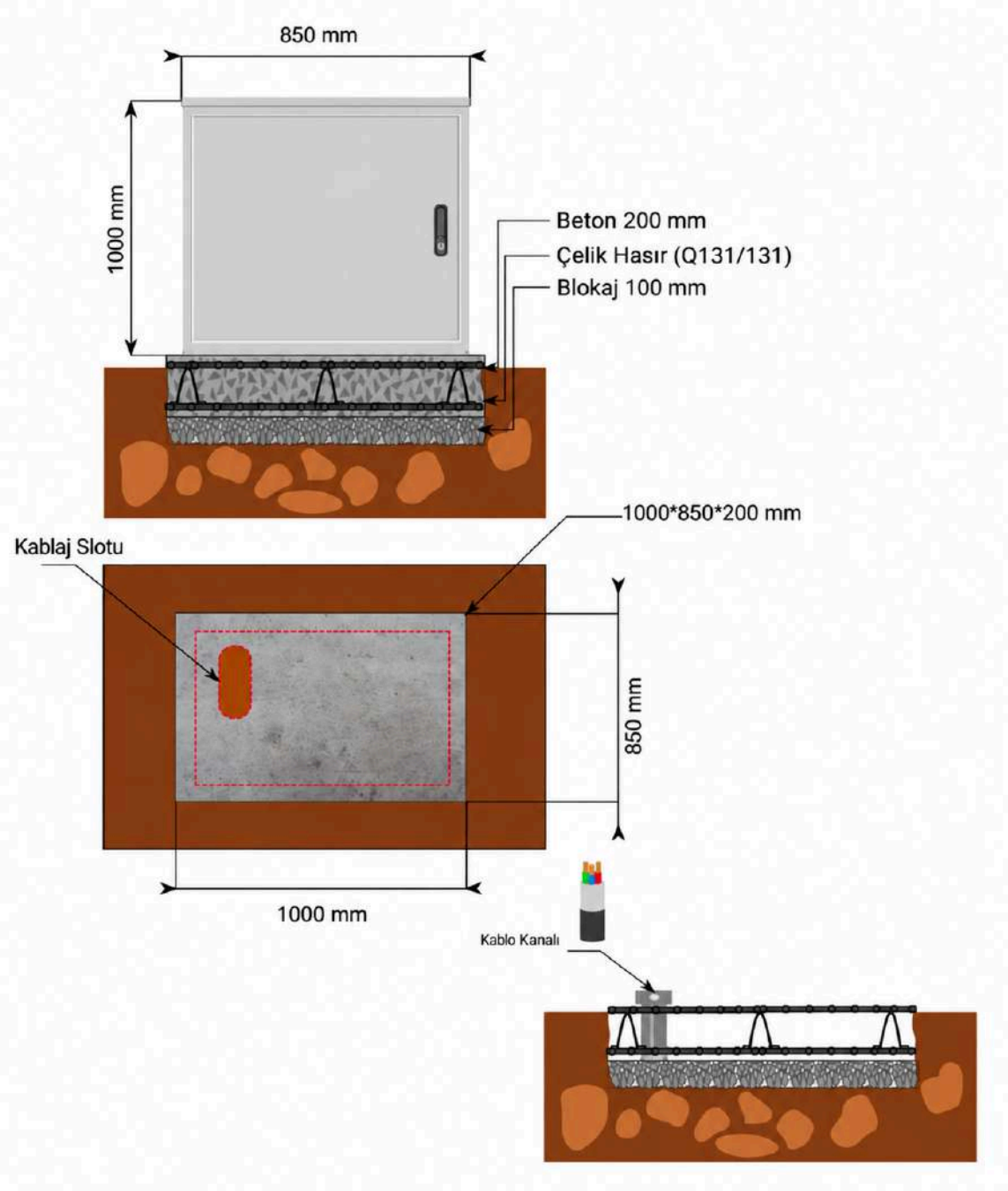


Figure 12 — Unit Panel Foundation

27 Control Panel

The connection and adjustment information for the hydraulic system and electrical components on the unit panel is listed below.

HYDRAULIC SYSTEM **Hydraulic System**

PAS68, which has a series-connected hydro-mechanical system, is managed by a programmable central unit panel. When required, the opening and closing of the barriers is carried out by a hydraulic pump that generates hydraulic power. Emergency rise equipment can be added to the system if needed.

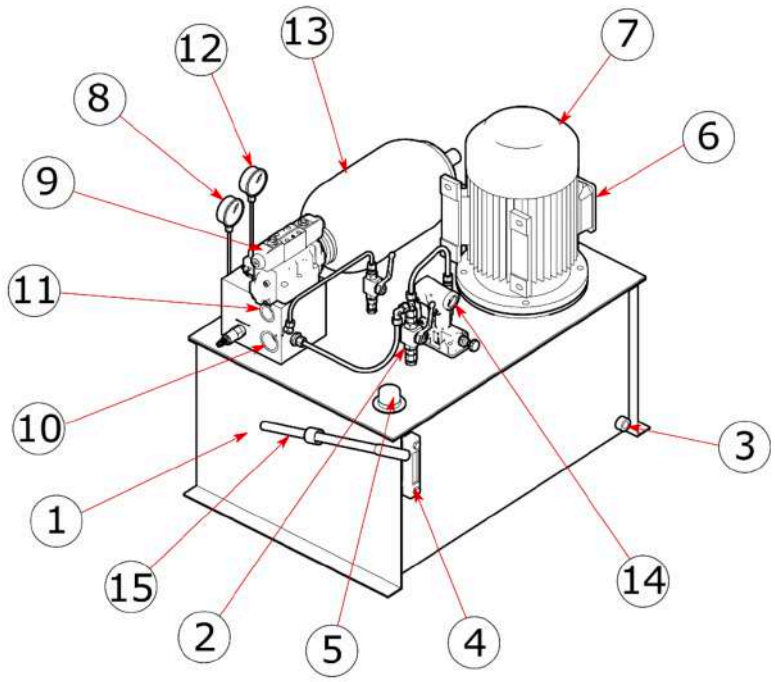


Figure 13 — Road Blocker Hydraulic Unit Numbered Illustration

No	Component
1	Hydraulic tank
2	Ball valve
3	Hydraulic oil drain
4	Hydraulic oil level gauge
5	Hydraulic oil filler cap
6	Motor electrical connection
7	Motor

No	Component
8	Hydraulic pressure gauge
9	Solenoid valve
10	Line A (barrier down)
11	Line B (barrier up)
12	Emergency rise pressure gauge
13	Emergency rise nitrogen tank
14	Manual lowering
15	Manual lowering lever

ⓘ Ideal operating values: hydraulic pressure gauge 60-80 bar, oil quantity 3/4 of tank capacity.

LABELS **Hydraulic System Labels**

High-pressure warning label: located next to the pressure gauges.
Oil inlet label: located on and next to the hydraulic oil filler cap.
High-voltage warning label: located on the unit control panel cover.
Quality control label: located on the electric motor.
Direction label: located on the electric motor cooling cover.
Hydraulic connection labels: indicate lines A and B.

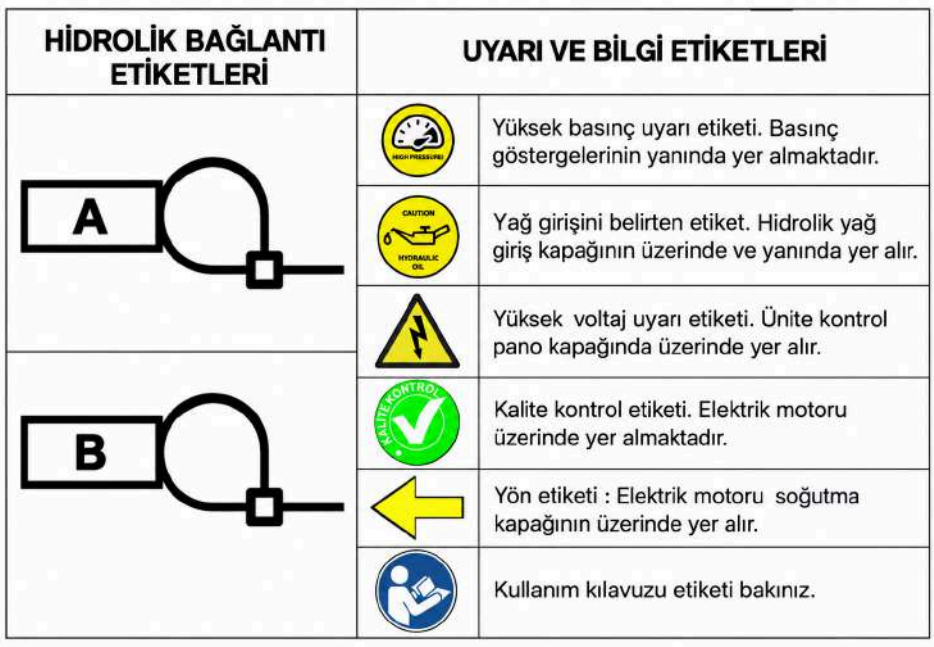


Figure 14 — Road Blocker Hydraulic System Labels

UNIT PANEL

Unit Panel

The unit panel houses the switch, phase protection relay, contactor, PLC, loop detector and relay group. The internal panel layout and terminal block numbers are shown in the example image below.

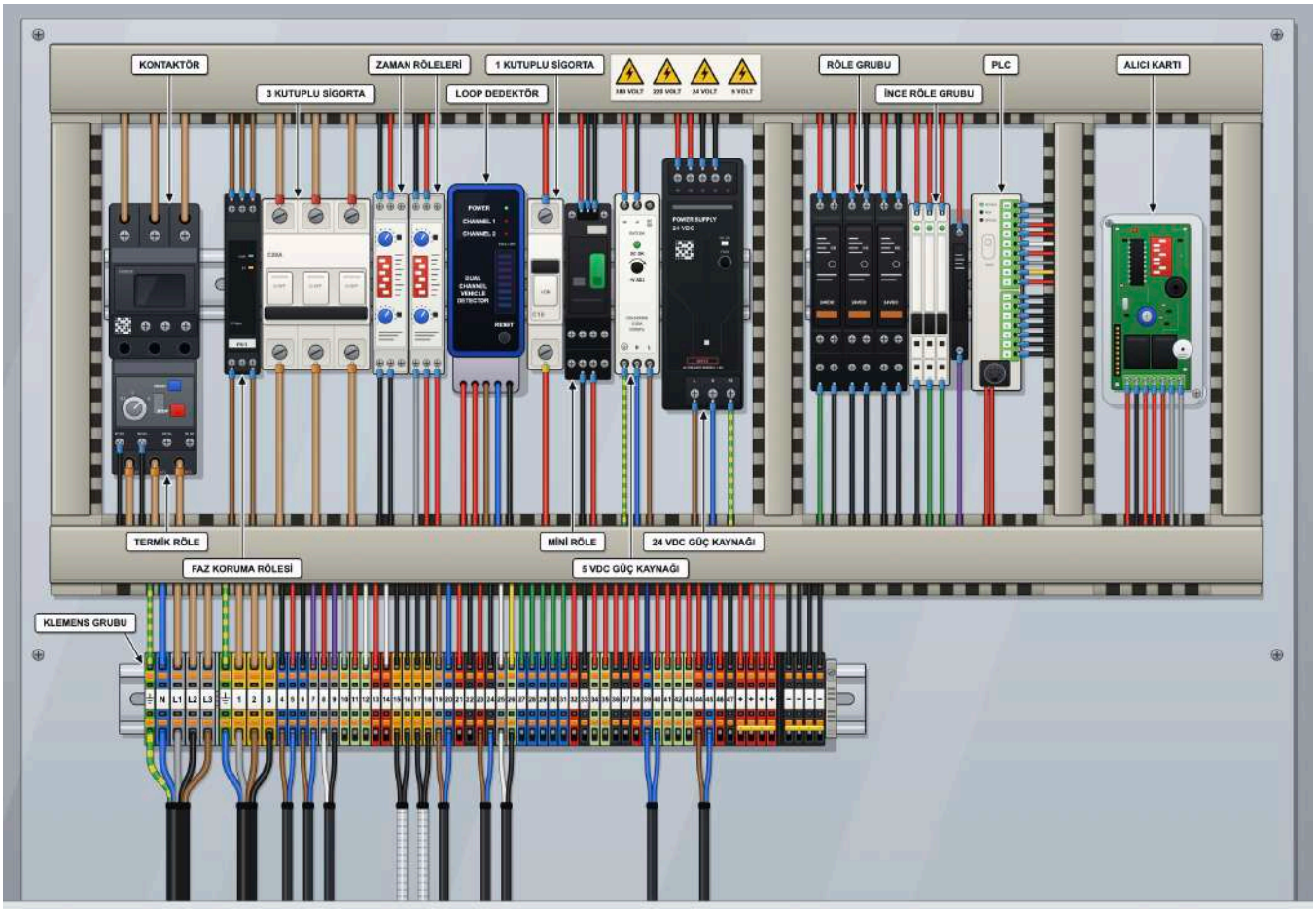


Figure 15 — Road Blocker Unit Panel Interior View

Disconnect the electrical connection before opening the panel. Otherwise, it may result in electric shock or death.

The unit panel images are representative. The panel diagrams and connection equipment are shown with all options included. Make the connections according to the diagram on the panel of the product you have purchased.

28 Loop Detector System

A vehicle entering the loop winding area causes changes in the electromagnetic field. This change in the field triggers the relays on the unit panel, ensuring vehicle safety.

At the start of the loop winding, leave a 3 m allowance at the first cable end for the external connection. The number of loop turns is 3; the cable is wound 3 turns inside the channel cut into the ground. After winding is complete, twist the remaining winding ends with the allowance around each other into a spiral and extend them to the unit panel. Cover the top of the loop winding to prevent damage to the winding. Measure the winding ends with a multimeter to check that the circuit is complete. The number of turns will vary as the loop area changes.

The loop winding must be single-core NYAF cable with a diameter of 1 or 1.5 mm. For the loop winding, the ground must be cut to a depth of 5 cm and a thickness of 5 mm.

- After the cable has been laid, seal the loop slot with chemical epoxy.

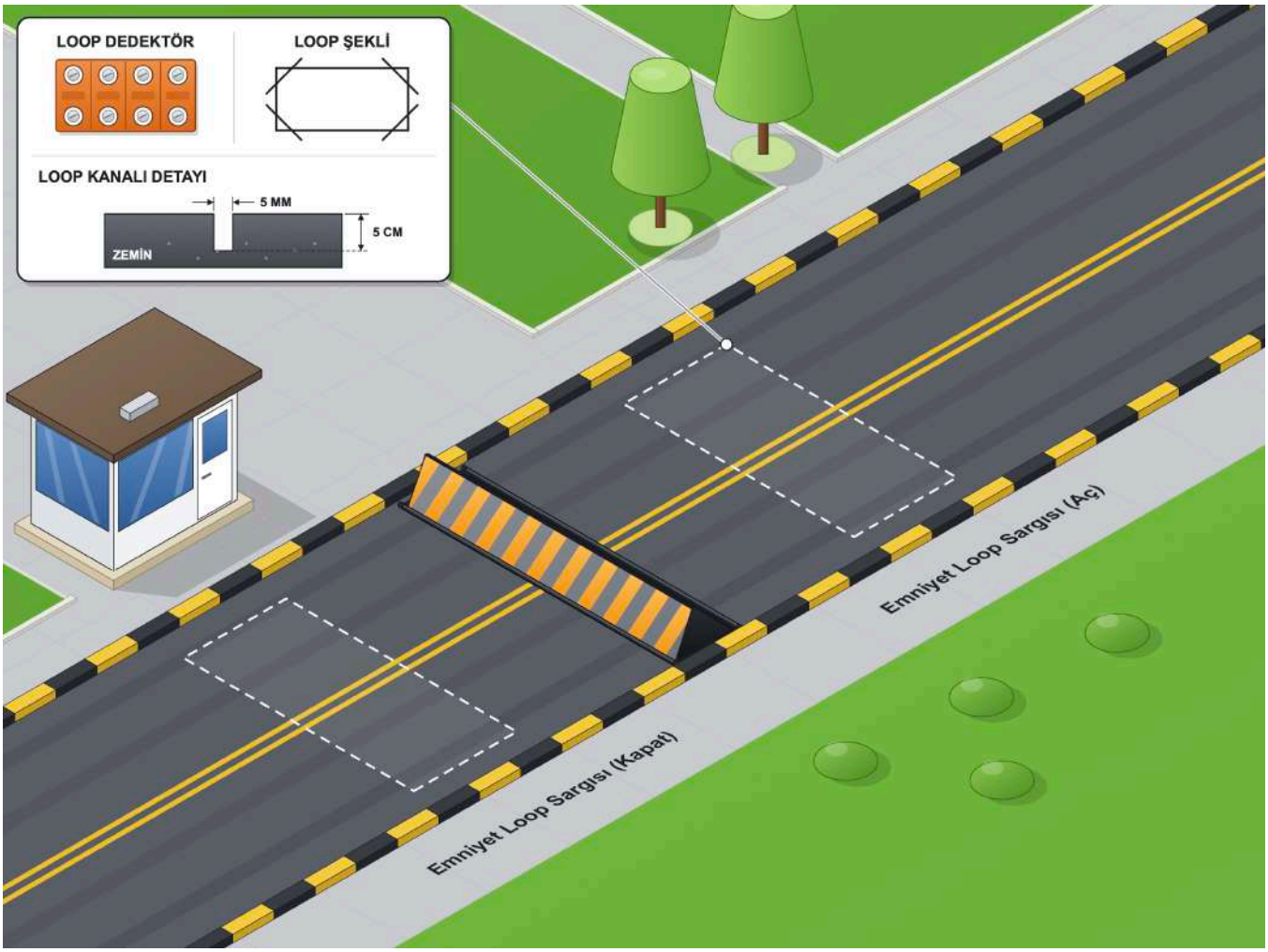


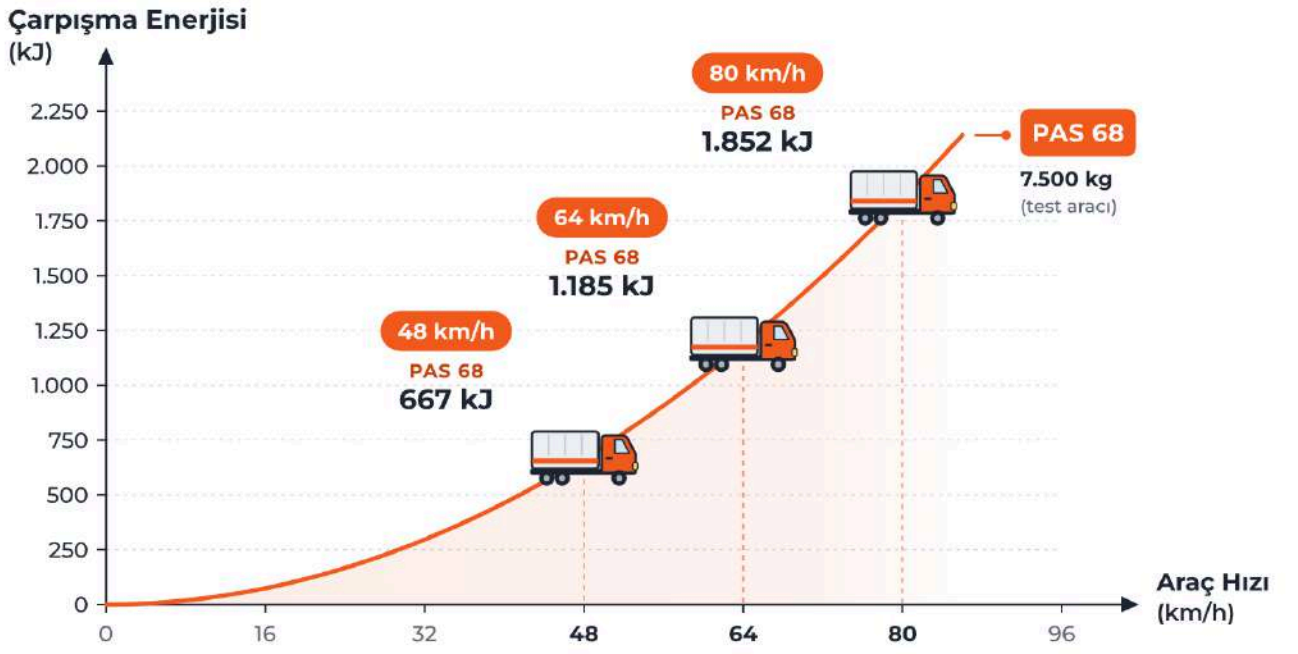
Figure 16 — Loop Winding Ground Cross-Section

29 Impact Energy and Test Values

PAS 68 is the British standard that defines the impact resistance of security barriers used against vehicle attacks and forced-entry attempts (BSI PAS 68). In the test, a vehicle of a specified weight is driven into the barrier at a defined speed, generally at an angle of 90°. The distance by which the vehicle passes the barrier (penetration distance) and the distance travelled by scattered debris are then measured.

In the heavy vehicle class the test vehicle weighs 7,500 kg and the tests are carried out at speeds of 48, 64 and 80 km/h. The impact energy depends on the weight of the vehicle and on the square of its speed ($E = ½ \cdot m \cdot v^2$). For this reason the energy increases much faster as the speed rises: an impact at 80 km/h carries approximately 2.8 times the energy of an impact at 48 km/h. A heavier vehicle at the same speed produces higher energy.

The following graph and table show the impact energy of a 7,500 kg test vehicle at different speeds. The PAS 68 test speeds are 48, 64 and 80 km/h; the values of 32, 56 and 72 km/h are given for comparison purposes. The Road Blocker test class and results are stated in the product certificate.



Araç Hızı (km/h)	32 km/h	48 km/h PAS 68 testi	56 km/h	64 km/h PAS 68 testi	72 km/h	80 km/h PAS 68 testi
Araç Hızı (mph)	20 mph	30 mph	35 mph	40 mph	45 mph	50 mph
Çarpışma Enerjisi PAS 68 · 7.500 kg	296 kJ	667 kJ	907 kJ	1.185 kJ	1.500 kJ	1.852 kJ

Figure 17 — New image area

30 Maintenance Procedure

Carry out the following maintenance procedures regularly every 6 months.

- Clean the drainage inlets so that the moisture drainage system can work efficiently.
- Check that the bolts on the barrier are not loose.
- Check the hydraulic connections inside the unit cabinet.
- Check the detection sensor.
- Check the unit cabinet for hydraulic oil leaks.
- Check the oil gauge. If a drop in oil level is detected, top up the oil.
- Check for oil leaks.

> Do not work under the moving part during maintenance; secure the moving part with mechanical support.

31 Periodic Maintenance Inspection Form

Record periodic maintenance work using the form below.

MAINTENANCE FORM **Periodic Maintenance Inspection Form**

After each maintenance visit, fill in the relevant rows and record the form with a date and signature.

Inspection Item	Date	Description	Action Taken	Status
Lubrication of the hinges				
Hydraulic oil level check				
Bolt and component check				
Manual release system check, if present				
LED warning indicator check				
Hydraulic connection check				
Hydraulic component oil leak check				
Pressure gauge check				
Traffic light operation check				
Loop detector check				
Button and remote control operation check				
Relay operation check (arc check)				

Inspection Item	Date	Description	Action Taken	Status
Oil viscosity check				
Heater check, if present				

32 Troubleshooting

The boom barrier makes a noise while moving

- Check the hinge assembly; it may be dirty or lacking lubrication.
- Friction and dirt may have built up on the barrier edges; check this.
- Check the hinge pins; if any have come out of place, reinsert them.
- If the noise is coming from other components, contact technical service.

Noise is coming from the HPU SERVICE REQUIRED

- Contact technical service.

The remote controls do not work

- Check the remote control battery; if the signal light does not come on, replace the battery.
- Check the remote control buttons and make sure they work.
- The emergency stop button may be pressed; make sure it is not pressed.
- The fire system may be active; make sure it is not active.
- The remote control receiver board may be faulty; check it by pressing the button on the board.
- If the remote control is new, its encoding may be incorrect; contact technical service.
- The remote control may be faulty; contact technical service.

The remote controls respond late

- Check the remote control battery; if the signal light does not come on, replace the battery.
- Check whether there is a signal jammer nearby (a base station, etc.).
- Check the remote control receiver antenna; it may have come loose.

The fuse blows SERVICE REQUIRED

- Check the cable groups entering the panel for burning.
- Is the motor straining?
- Check the cable groups inside the panel for burning.
- The rotary switch may be broken or cracked; check that the switch knob works.
- Is the phase protection working? Check by taking a measurement.
- Check that the contactor is working.
- Check whether there is power output from the adapter.
- Check whether there is power at the control board.

Not working / faulty SERVICE REQUIRED

- Is there power to the system?
- Take a measurement on the main line cable.
- The phase sequence may be incorrect; correct it.
- The phase protection relay may be faulty; a measurement must be taken.

There is power to the system but no mechanical movement SERVICE REQUIRED

- Is the manual valve open?
- Is the EFO (emergency stop button) pressed?
- Is the fire system active?
- Is there an obstruction on the loop detector / photocell operating line?
- Check the system's cable connections against the wiring diagram.
- Is the remote control / button operation working properly?
- Check that the relays are fully seated in their sockets.
- Check that the limit switch connections are correct and working.
- Is there power output from the adapter?
- Check whether the contactor is working.
- Check whether there is power at the control board.

The unit stops halfway during operation SERVICE REQUIRED

- If the unit has just been installed, check whether there is concrete debris, etc., inside it obstructing movement.
- Check the oil level on the unit; if it is low, add oil, following the warnings.
- When the unit stops halfway, does the motor keep running? If not, contact technical service.
- If limit switches are fitted, check their positions.
- The piston may be deformed; check it.

There is an oil leak SERVICE REQUIRED

- Check whether there is leakage from the oil gauge.
- Check the connection fittings on the unit (valve, control valve, pressure gauge, etc.).
- Check the couplings on the unit.
- Check whether there is a leak from the fittings on the piston or from the piston body.

Rises slowly SERVICE REQUIRED

- The manual lowering valve may not be in the correct position; check it.
- Remove the locking valve, clean it, and refit it.
- There may be an oil leak; check the hoses and fittings.
- The solenoid valve may be faulty; if another valve is available, test with it.
- There may be a motor fault; the unit must be checked by technical service.
- There may be a pump fault; the unit must be checked by technical service.
- The pressure adjustment screw may be loose. Check it.

33 Legal Rights

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ARMAKONTROL · PROJE TASARIM DEPARTMANI

PAS68 Road Blocker 70 cm

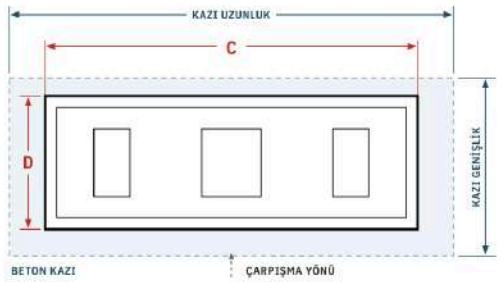
Montaj kılavuzu ölçü föyü — K4 ünite gövdesi ve beton kazı boyutları. 2 m'den 6 m'ye tüm açıklıklar, 5 konfigürasyon.

FORM	YAYIN
FR-057 R.001	26.09.2023
HAZIRLAYAN	BİRİM
U. Gezersu	mm

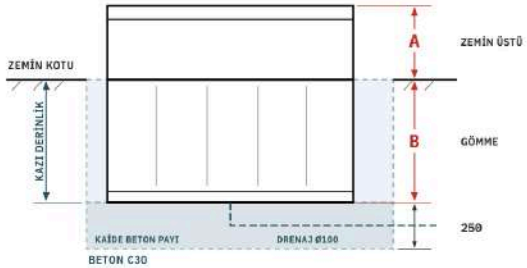
ÖLÇÜ KODLARI

Tüm ölçüler mm · Ölçek 1/1

ÜST GÖRÜNÜM



ÖN GÖRÜNÜM · KESİT



ÜRÜN ÖLÇÜLERİ

A — Yerden yükseklik
Bloklama yüksekliği; model adını verir. Seri sabiti.

B — Gömme derinliği
Zemin kotu ile ünite alt yüzü arası. Seri sabiti.

C — Ürün uzunluğu
Yol enine net geçiş genişliği. Açıklıkla değişir.

D — Ürün genişliği
Çarpışma yönündeki ünite ölçüsü. Seri sabiti.

BETON KAZI

U — Kazı uzunluğu
C + 1000 — her iki yanda 500 mm. 2 m'de 3200, 3 m'de 4150.

G — Kazı genişliği
D + 1000 — her iki yanda 500 mm beton payı.

H — Kazı derinliği
B ile aynı; altında 250 mm kaide beton payı.

TÜM MODELLERDE ORTAK

açıklık bağımsız

PANO ÖLÇÜLERİ

Pano tipi	A	B	C
Ünite Panosu	850	850	1000
Ünite Panosu (EFO)	850	1200	1200
Ünite Panosu (Alternatif)	650	850	1240

Pano beton kaidesi üst görünümde 1200 × 1200, kaide yüksekliği 100.

MONTAJ ÖLÇÜLERİ

Kazı kenarı beton payı	500 / yan
Kaide beton payı	250
Loop dedektörü mesafeleri	1000 + 1000
Kollu bariyer · trafik lambası kaidesi	500 · 200
Drenaj borusu	Ø100 · Ø40
Beton sınıfı	C30

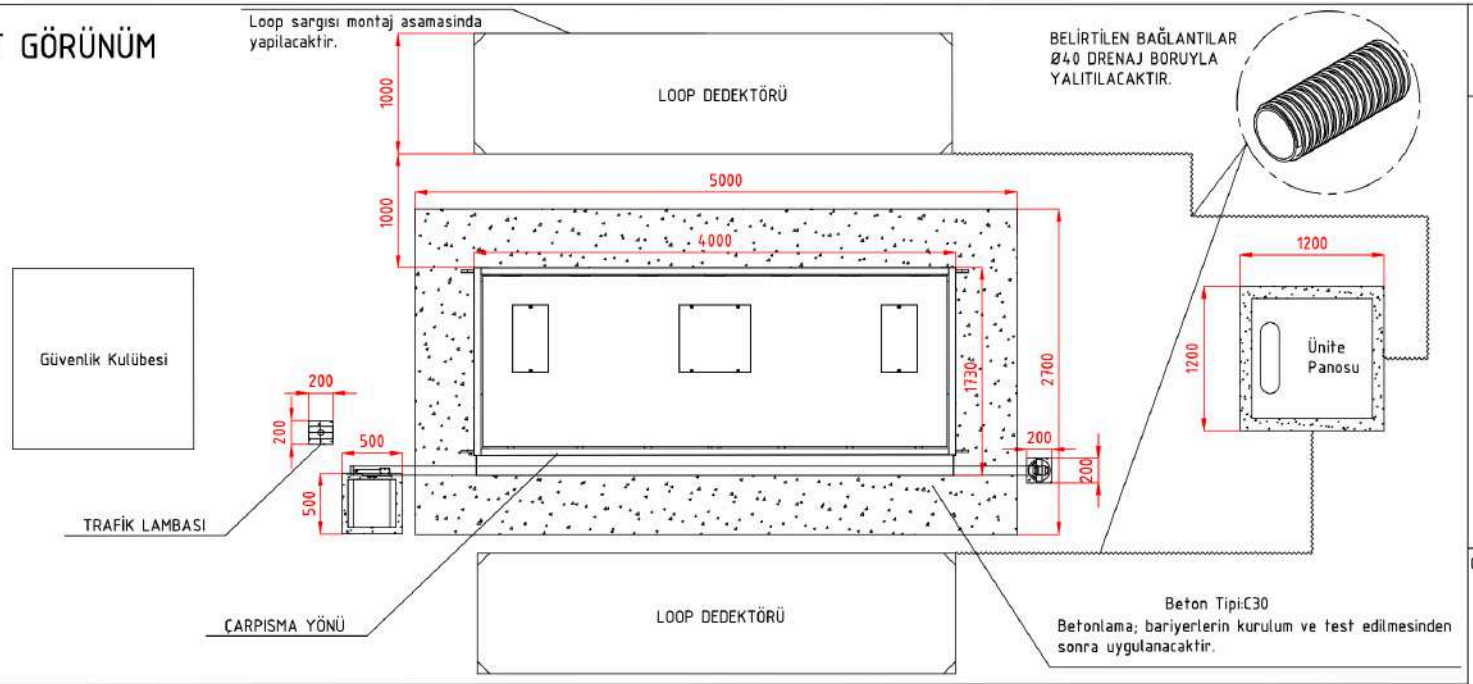
MODEL ÖLÇÜLERİ

5 konfigürasyon

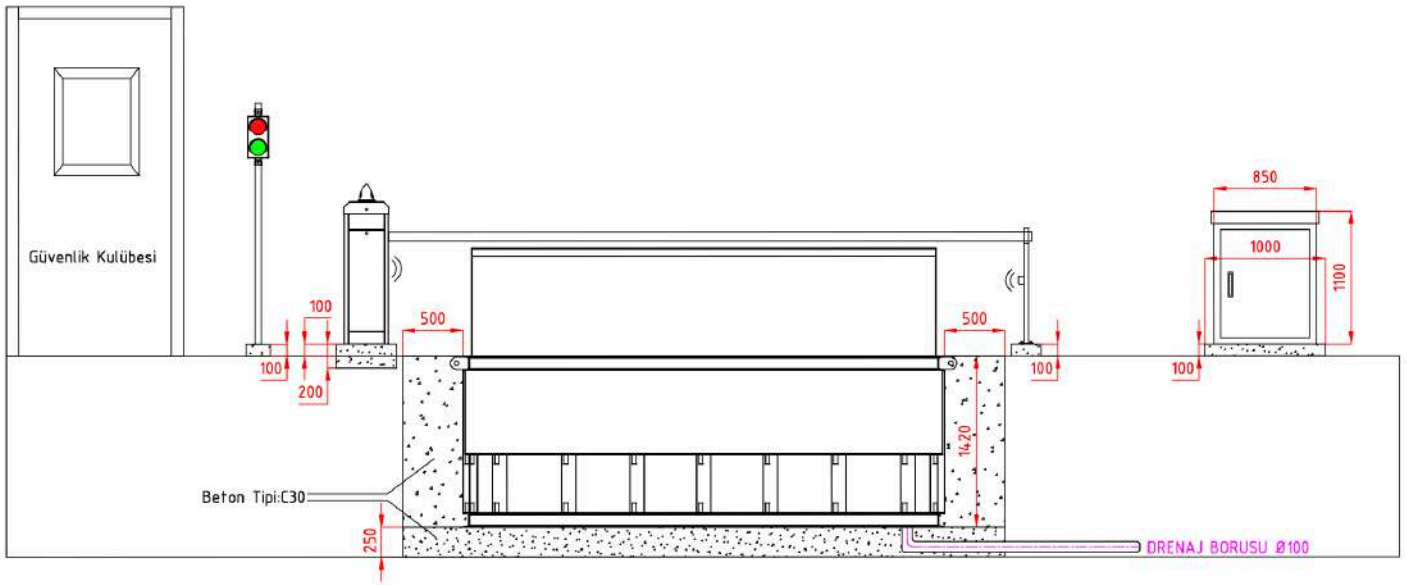
Model	Geçiş	ÜRÜN ÖLÇÜLERİ A yükseklik	B gömme derinliği	C uzunluk	D genişlik	BETON KAZI Uzunluk	Genişlik	Derinlik	AĞIRLIK · KG Ürün komple
PAS68 K4	2 m	**700**	972	**2000**	1100	3200	2100	972	**845**
PAS68 K4	3 m	**700**	972	**3000**	1100	4150	2100	972	**1.132**
PAS68 K4	4 m	**700**	972	**4000**	1100	5000	2100	972	**1.427**
PAS68 K4	5 m	**700**	972	**5000**	1100	6000	2100	972	**1.912**
PAS68 K4	6 m	**700**	972	**6000**	1100	7000	2100	972	—

A, B, D, kazı genişliği ve kazı derinliği seri sabitidir — açıklıkla değişmez. Açıklıkla ölçeklenen boyutlar `C` ve kazı uzunluğudur: `kazı uzunluğu = C + 1000` (her yanda 500 mm beton payı; 2 m'de 3200, 3 m'de 4150). `kazı derinliği = B` (gömme derinliği); ünite altındaki 250 mm kaide beton payıdır. Betonlama ünitenin kurulum ve testinden sonra yapılır. **Ağırlık:** AT-RB-700 komple ürün ağırlığı (F-058 tasarım fihristi); 6 m için kayıt yoktur. Pano ve beton dahil değildir.

ÜST GÖRÜNÜM



ÖN GÖRÜNÜM



ArmaKontrol

NOTLAR :

BU ÇİZİMİN MÜLKİYETİ ARMA KONTROL'E AİTTİR ! YAZILI İZNİ OLMADAN KOPYALANAMAZ. DAĞITILAMAZ. ÜÇÜNCÜ TARAFLARA VERİLMEMELİDİR.

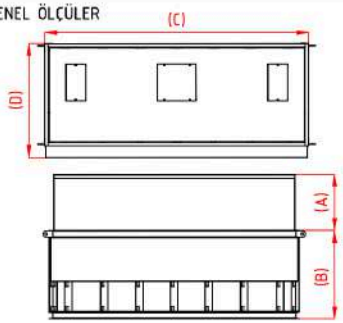
Tel: +90 212 222 75 00
Faks: +90 212 220 32 83

TÜM ÖLÇÜLER MM'DİR.
SADECE BELİRTİLEN ÖLÇÜLER DİKKATE ALINACAKTIR.

TÜM UYUŞMAZLIKLAR MÜHENDİSİN DİKKATİNE SUNULACAK VE ÖNCEDEN ÇÖZÜLECEKTİR.

MİLİMETRE OLARAK TÜM BOYUTLAR AYRICA BELİRTİLMİŞTİR.

GENEL ÖLÇÜLER



A	B	C	D	
900	1420	4000	1730	

UNITE PANO ÖLÇÜLERI

A	B	C		
850	850	1000		

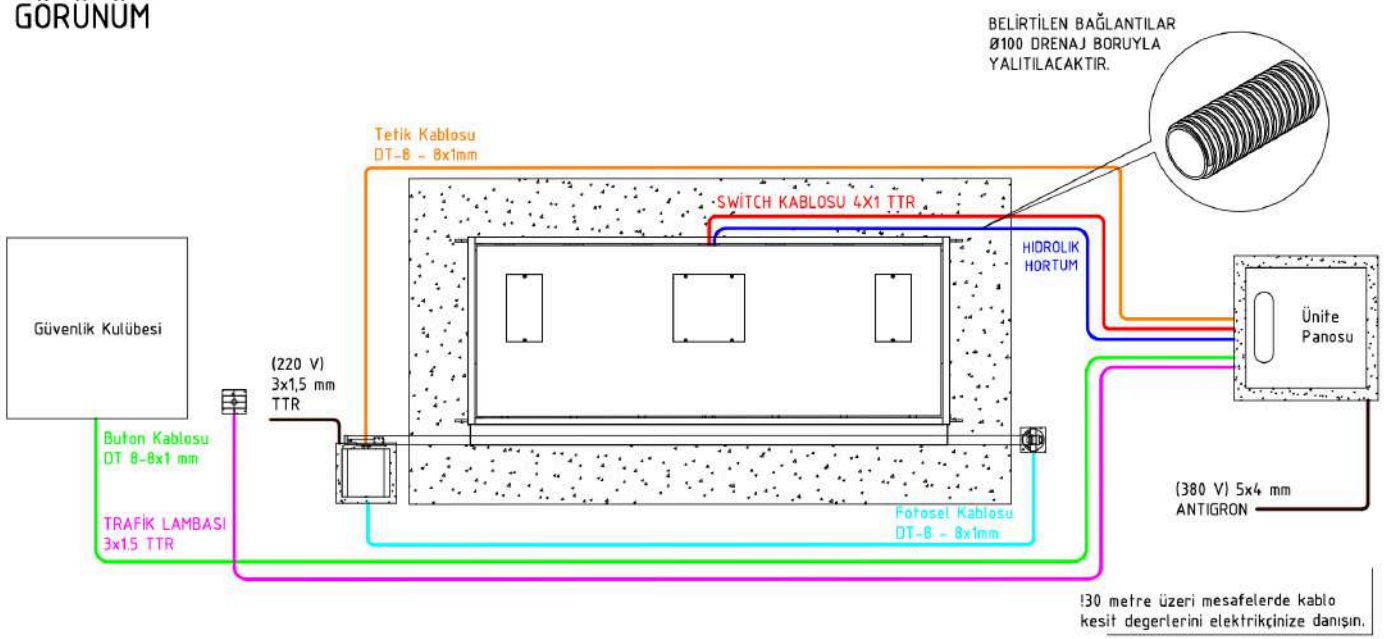
UNITE PANO ÖLÇÜLERI (EFO)

A	B	C		
850	1200	1200		

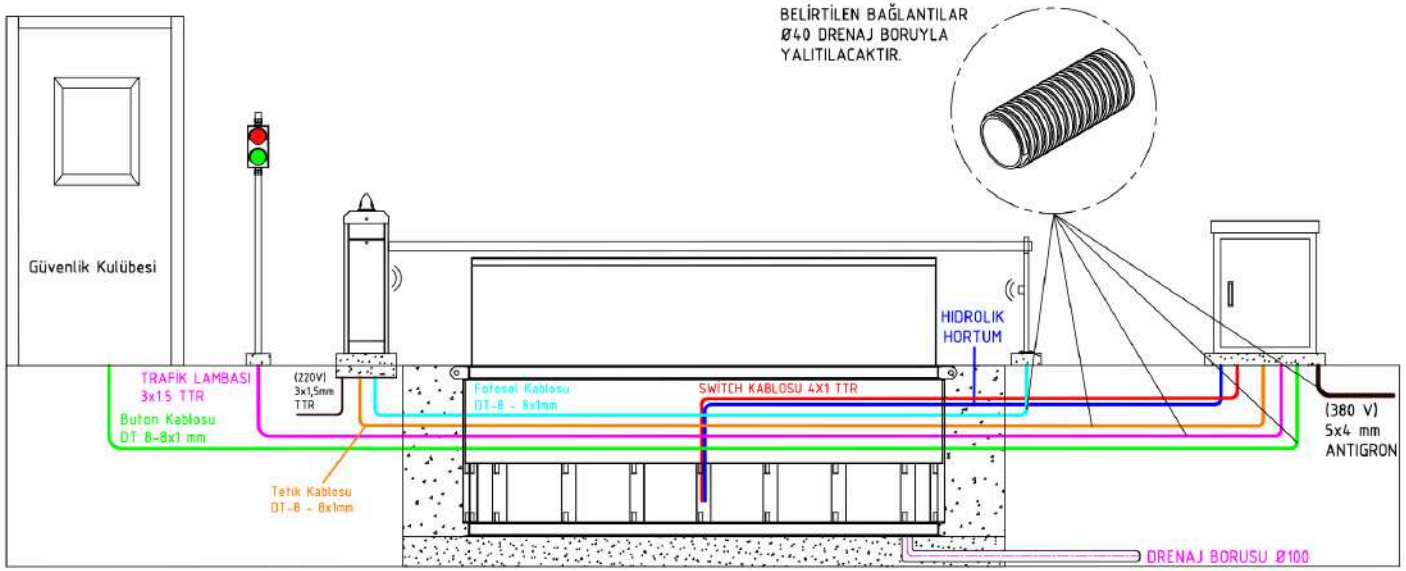
ÖLÇEK	1/1
HAZIRLAYAN	PROJE TASARIM DEP.
	U.GEZERSU

TÜM ÖLÇÜLER MM'DİR

ÜST GÖRÜNÜM



ÖN GÖRÜNÜM



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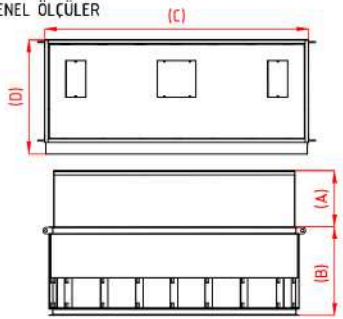
Tel: +90 212 222 75 00
Faks: +90 212 220 32 83

TÜM ÖLÇÜLER MM'DİR.
SADECE BELİRTİLEN ÖLÇÜLER DİKKATE ALINACAKTIR.

TÜM UYUŞMAZLIKLAR MÜHENDİSİN DİKKATİNE SUNULACAK VE ÖNCEDEN ÇÖZÜLECEKTİR.

MİLİMETRE OLARAK TÜM BOYUTLAR AYRICA BELİRTİLMİŞTİR.

GENEL ÖLÇÜLER



A	B	C	D	
900	1420	4000	1730	

UNITE PANO ÖLÇÜLERI

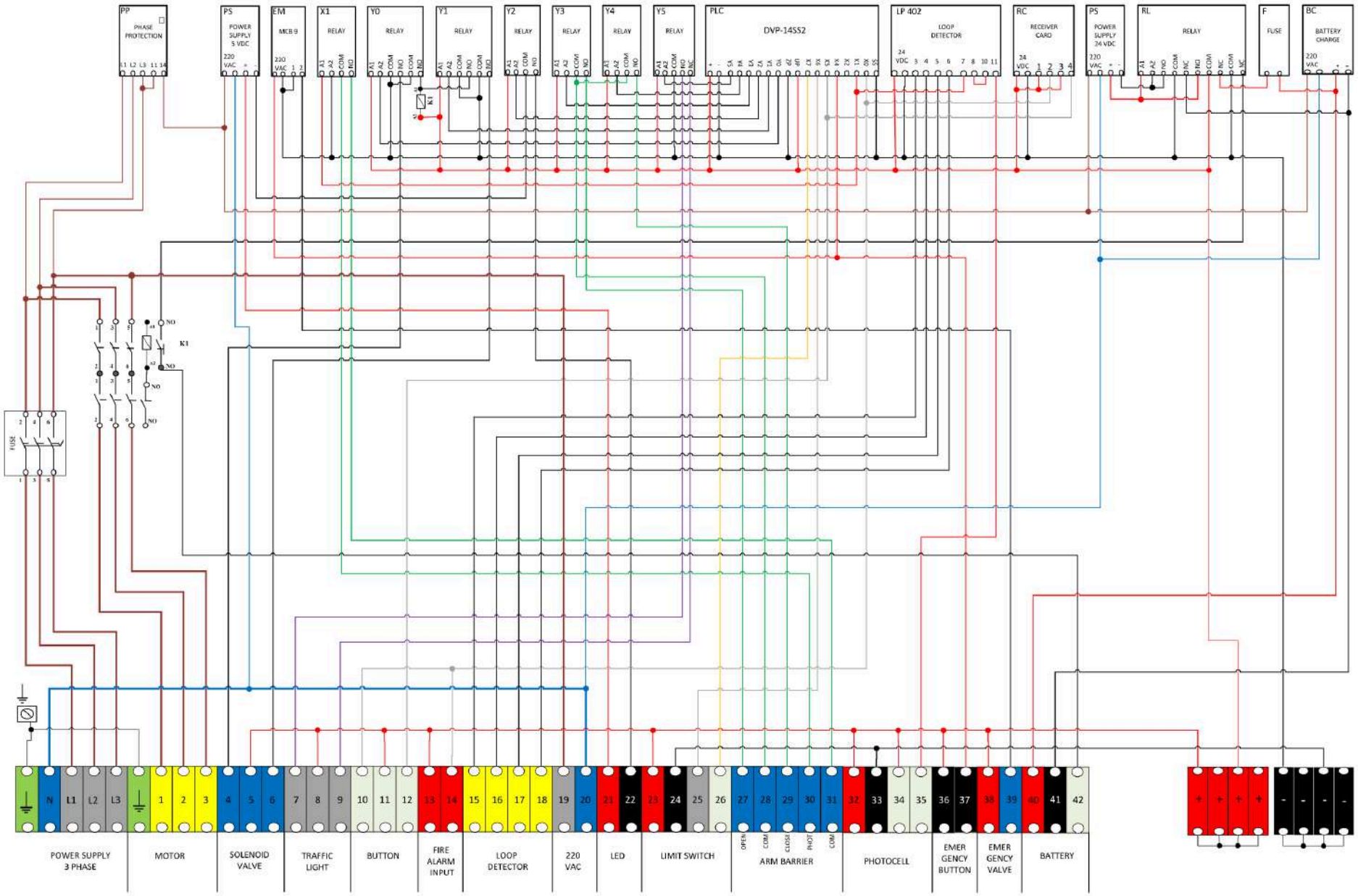
A	B	C		
850	850	1000		

UNITE PANO ÖLÇÜLERI (EFO)

A	B	C		
850	1200	1200		

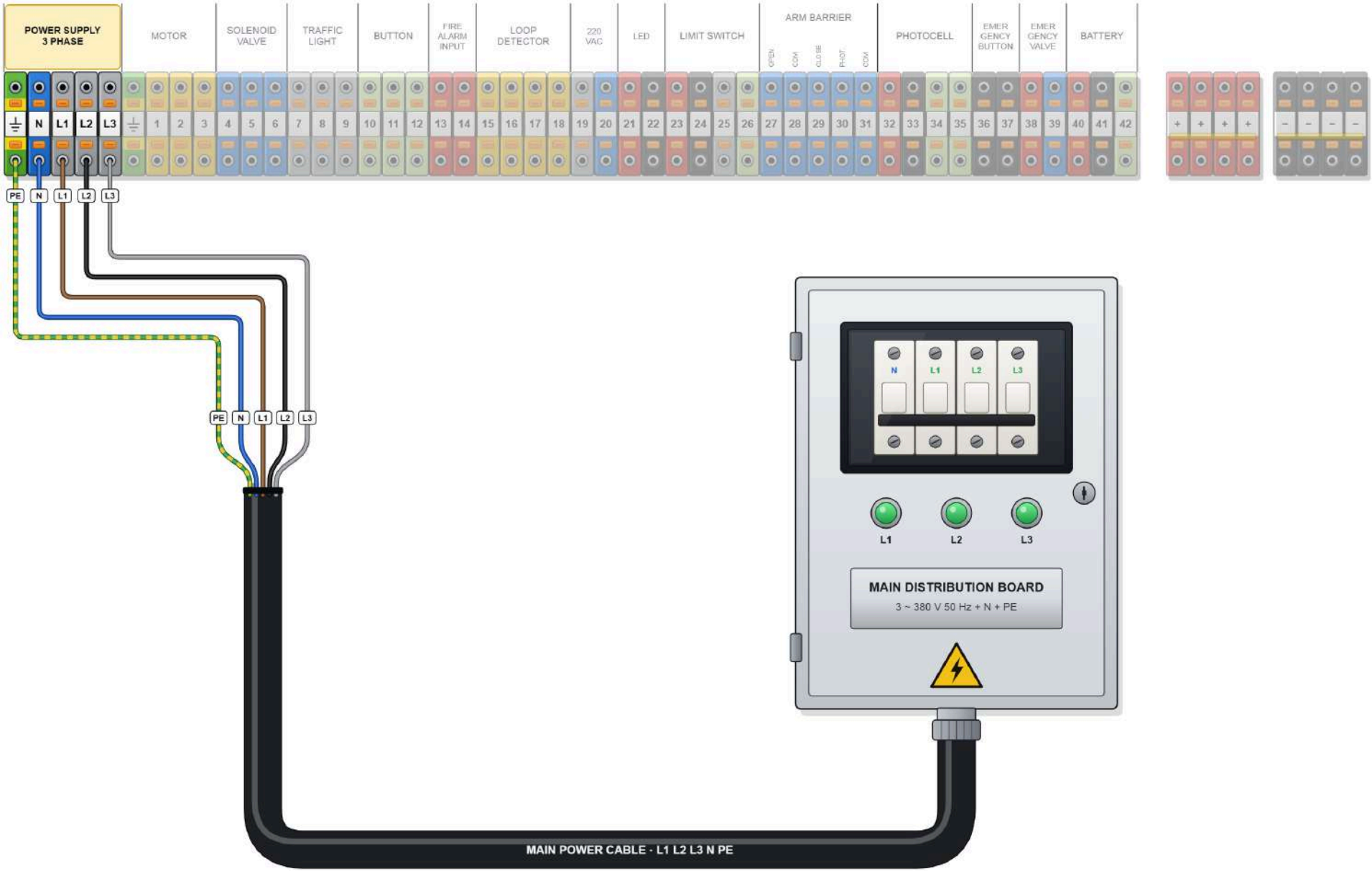
ÖLÇEK	1/1
HAZIRLAYAN	PROJE TASARIM DEP.
	U.GEZERSU

TÜM ÖLÇÜLER MM'DİR



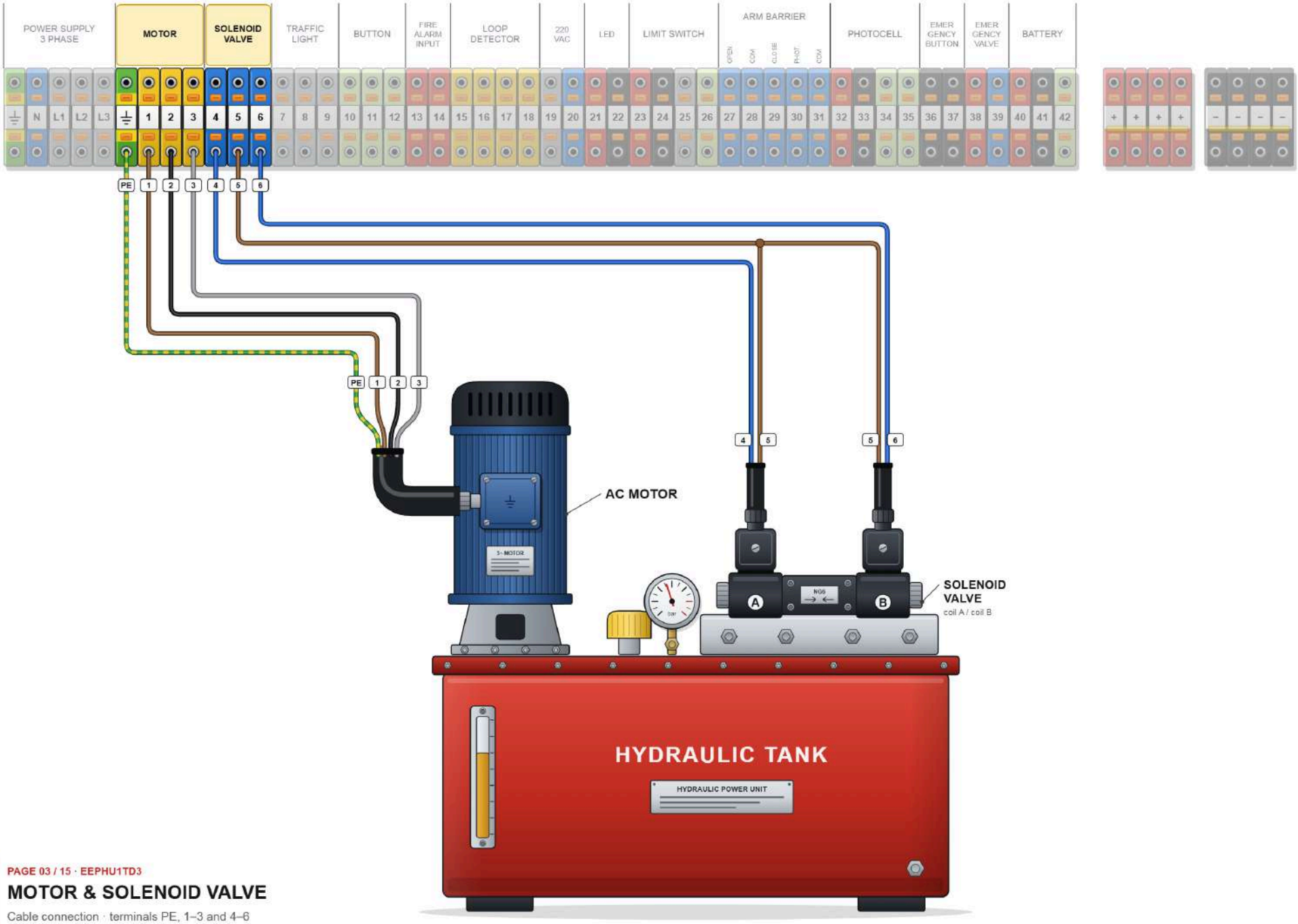
COMPLETE DIAGRAM

Road blocker + rising bollard · control panel wiring



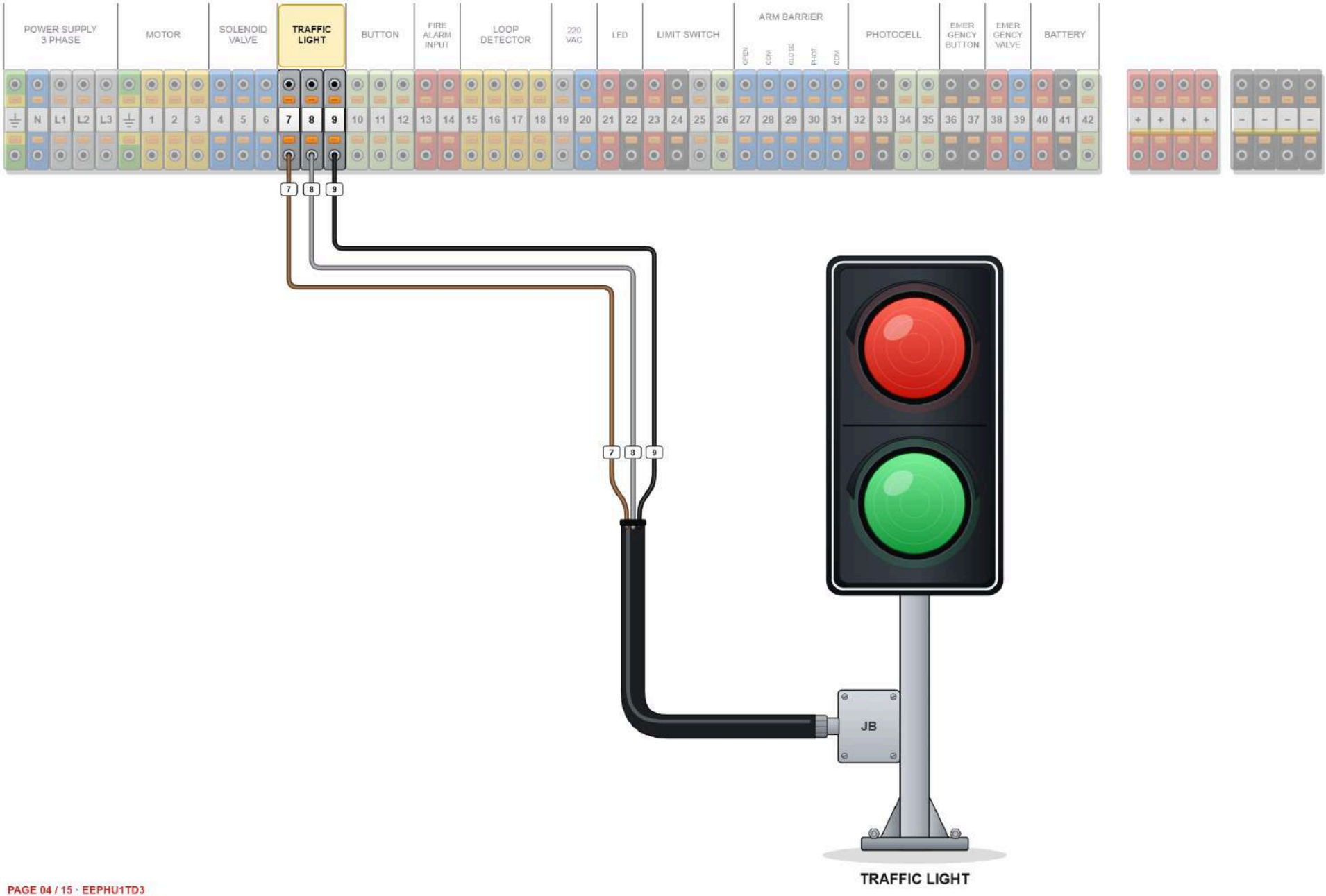
MAIN POWER CABLE

3-phase supply · terminals PE, N, L1, L2, L3



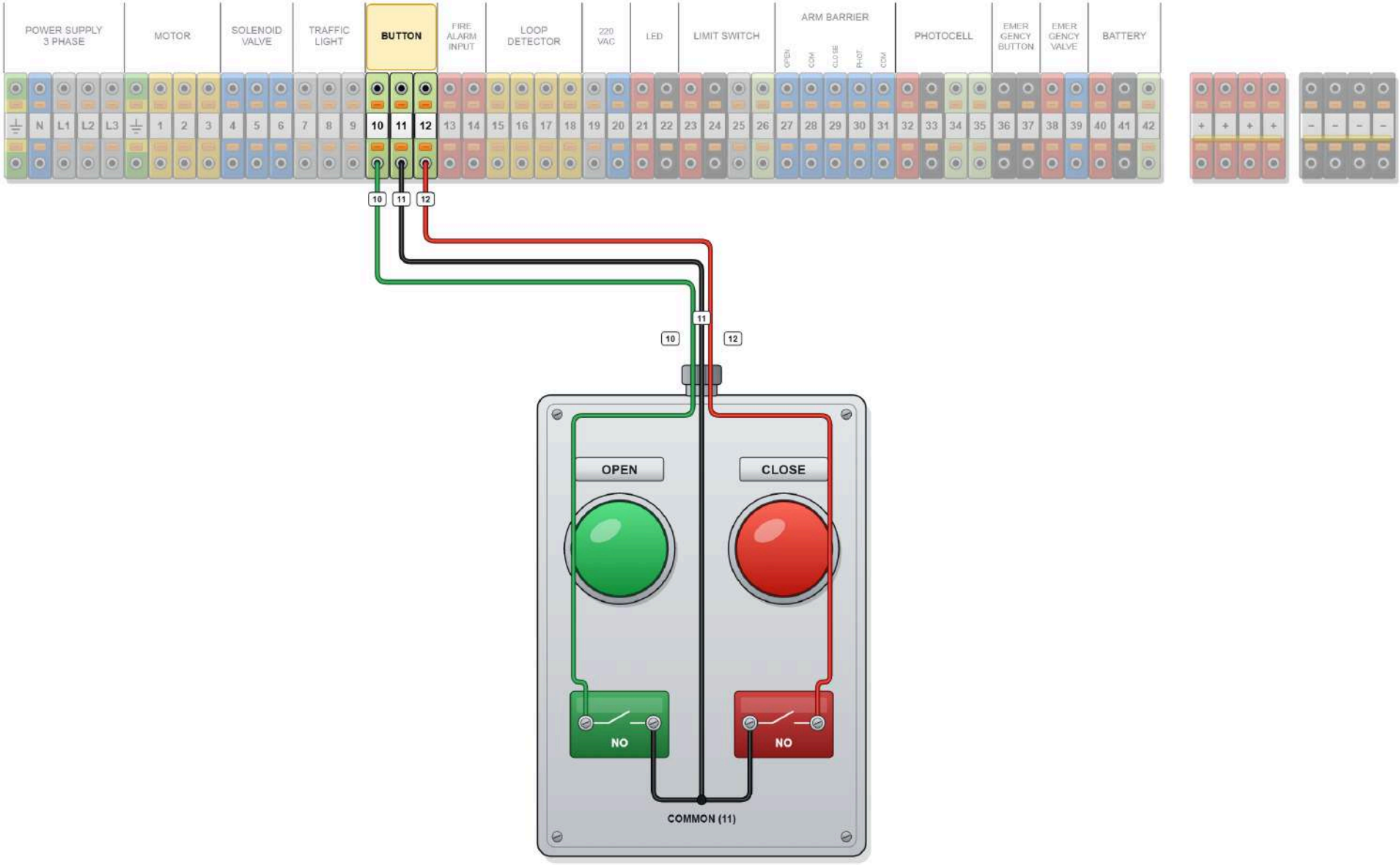
MOTOR & SOLENOID VALVE

Cable connection · terminals PE, 1–3 and 4–6



TRAFFIC LIGHT

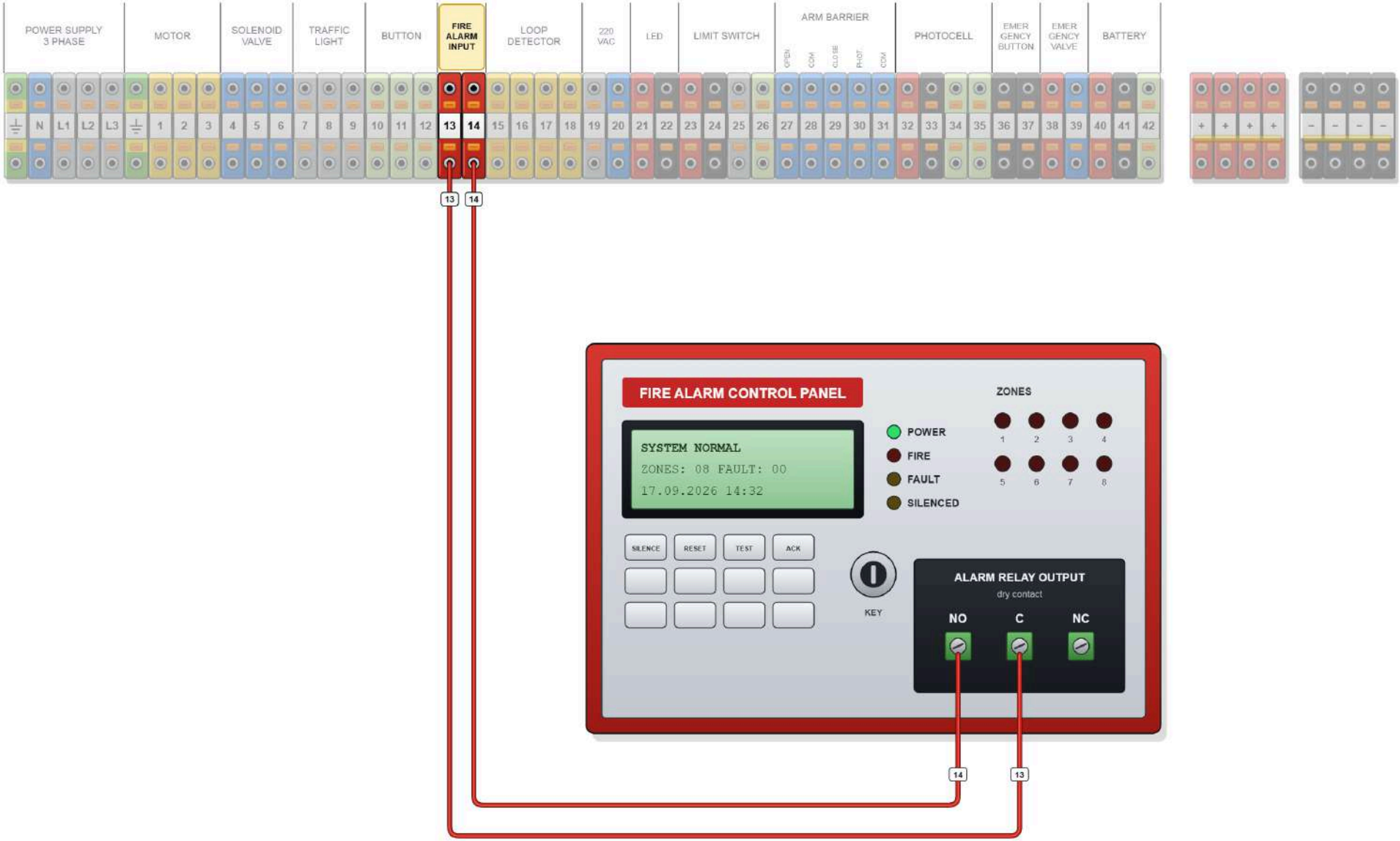
Cable connection · terminals 7, 8, 9



PUSH-BUTTON STATION

BUTTON

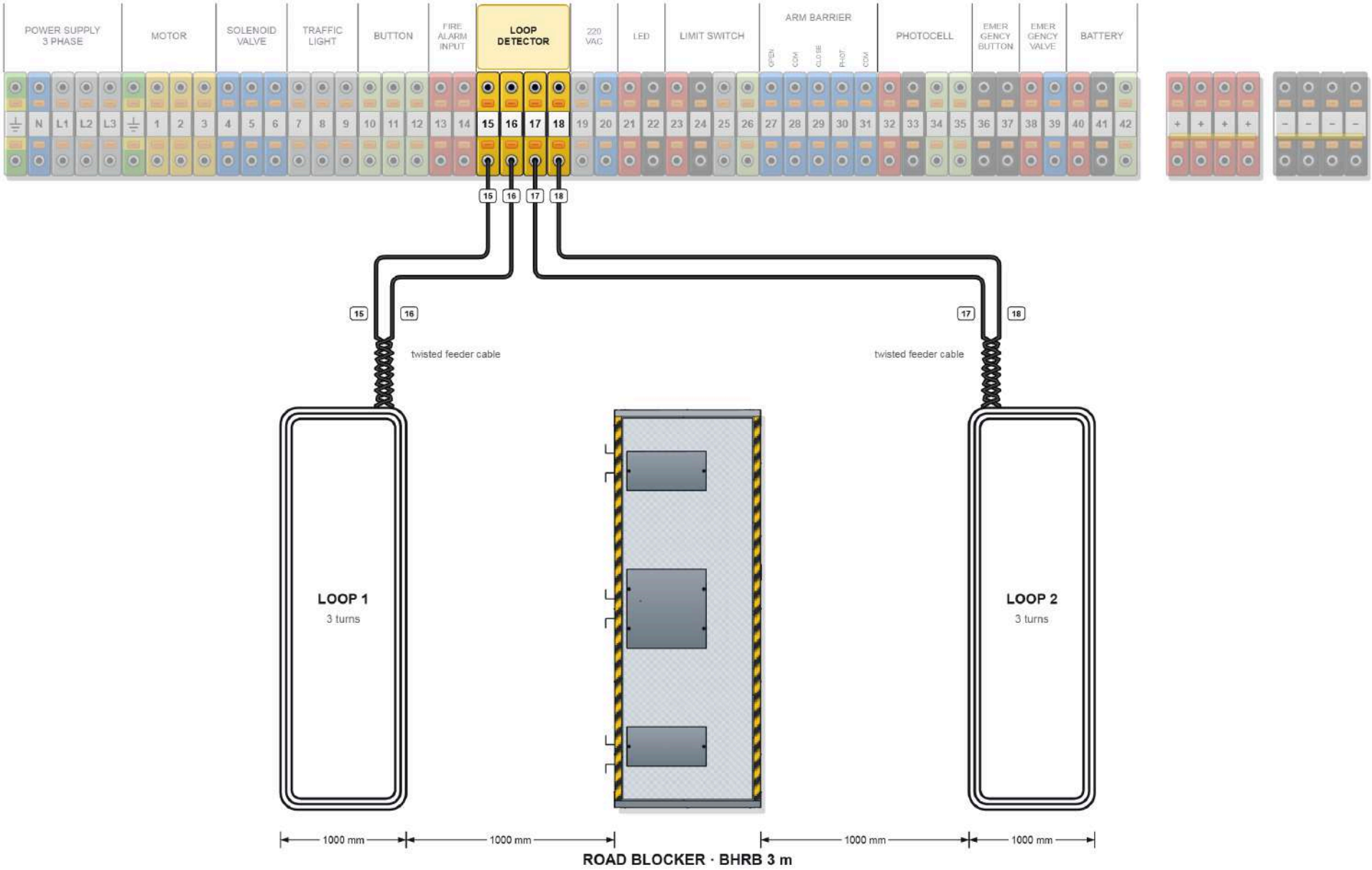
Open / close push-button station · terminals 10, 11, 12



PAGE 06 / 15 · EEPHU1TD3

FIRE ALARM INPUT

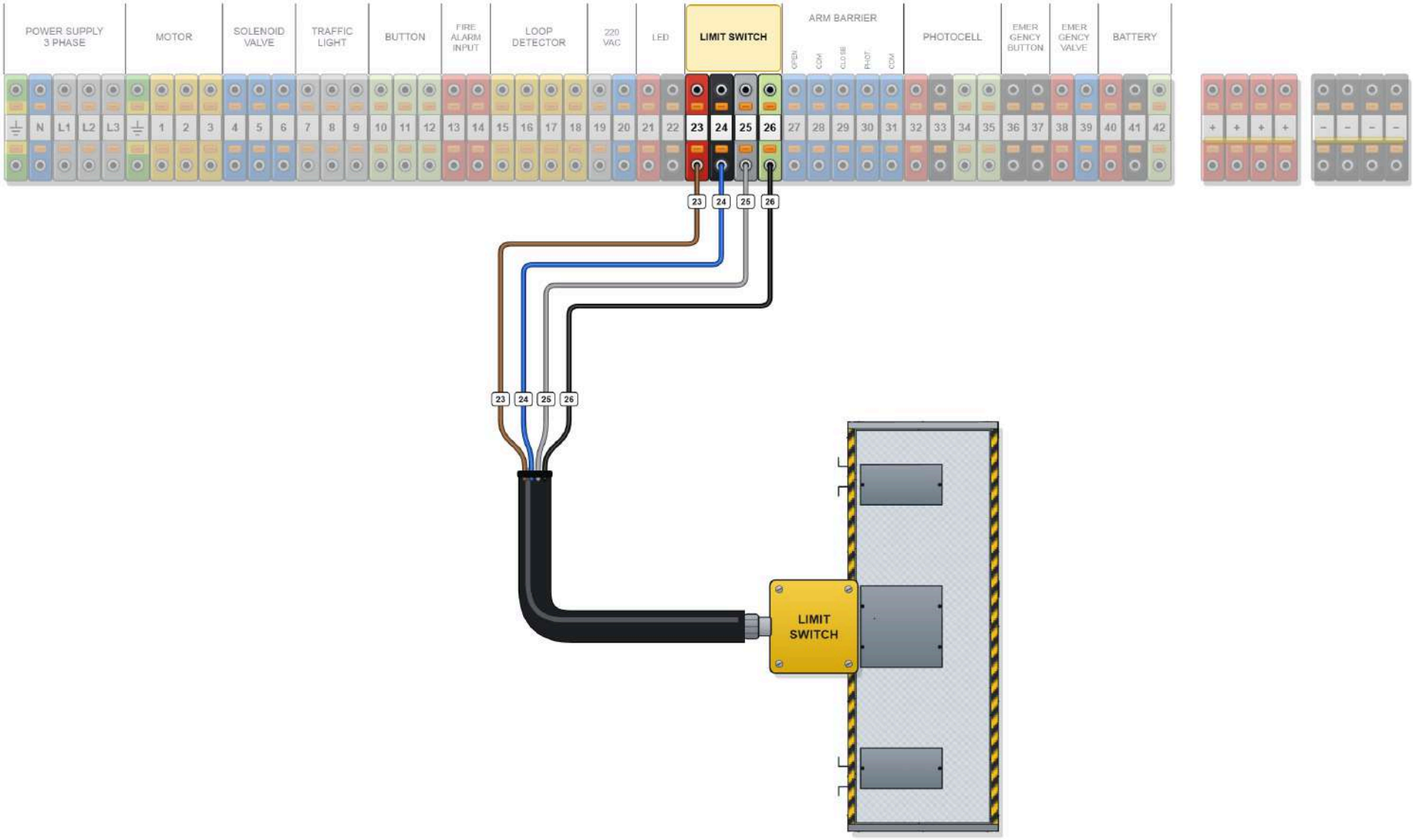
Dry contact from the fire alarm panel · terminals 13, 14



ROAD BLOCKER · BHRB 3 m

LOOP DETECTOR · ROAD BLOCKER

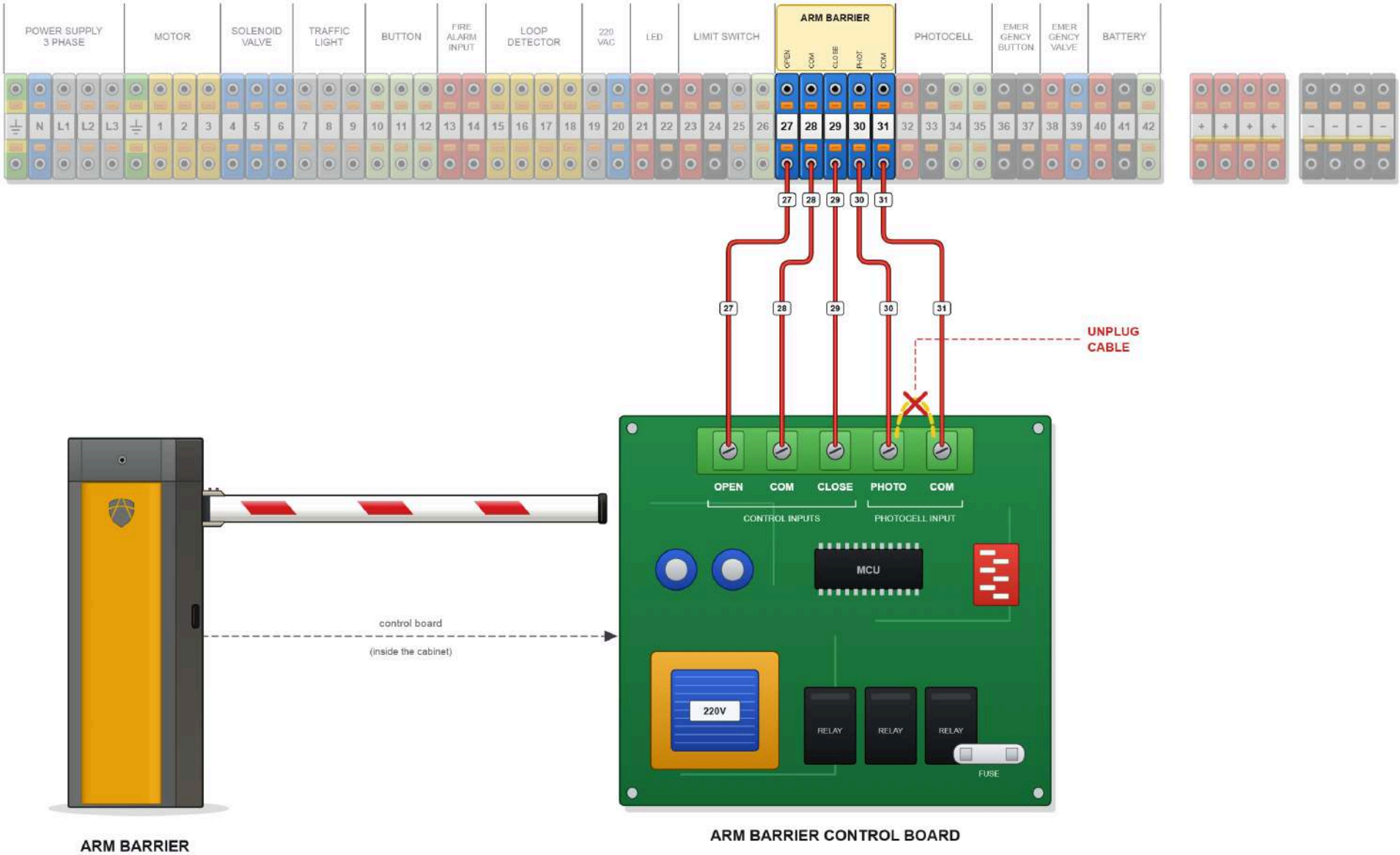
Loop 1: terminals 15, 16 · Loop 2: terminals 17, 18



ROAD BLOCKER · BHRB 3 m

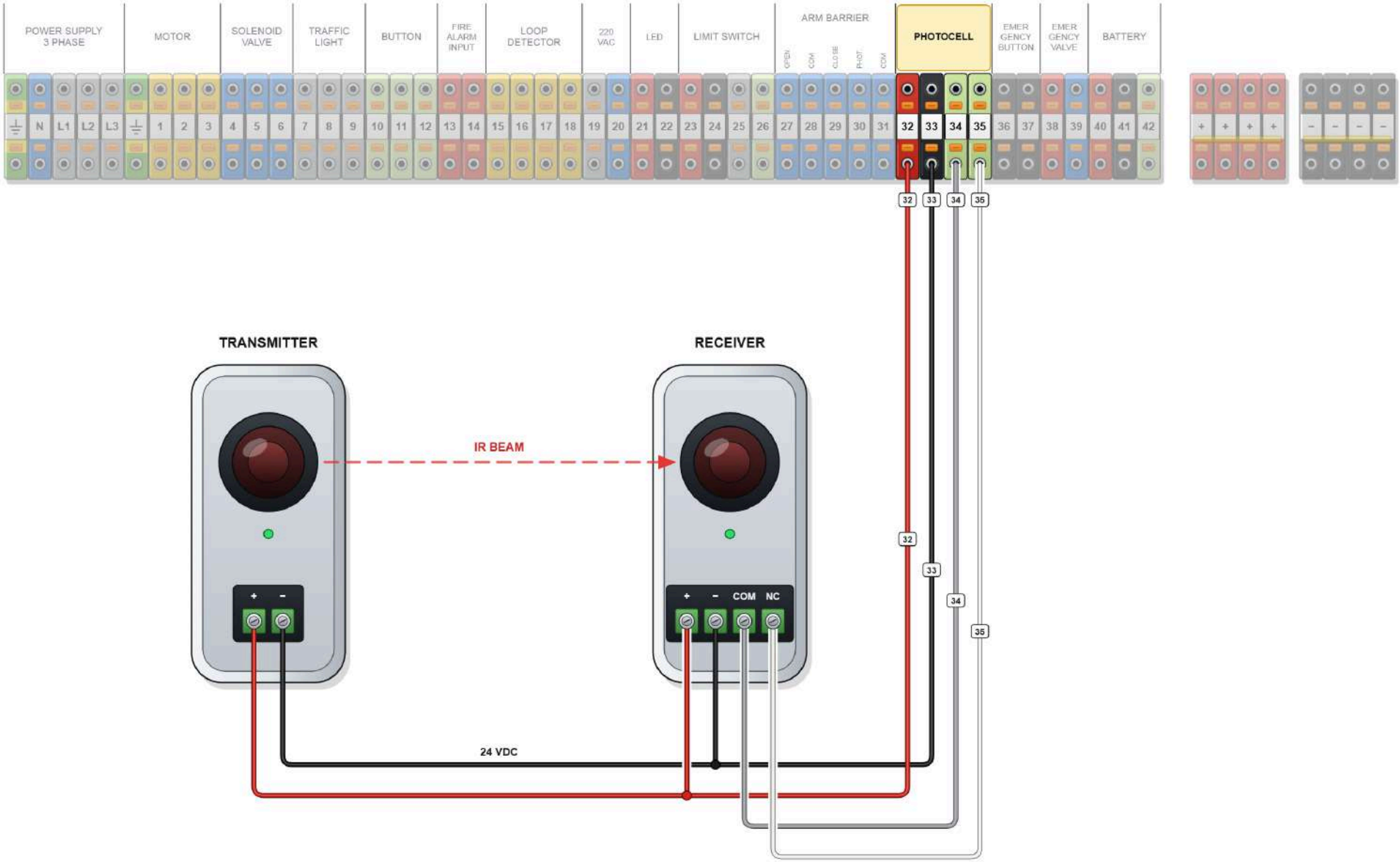
LIMIT SWITCH

Road blocker limit switch cable · terminals 23, 24, 25, 26



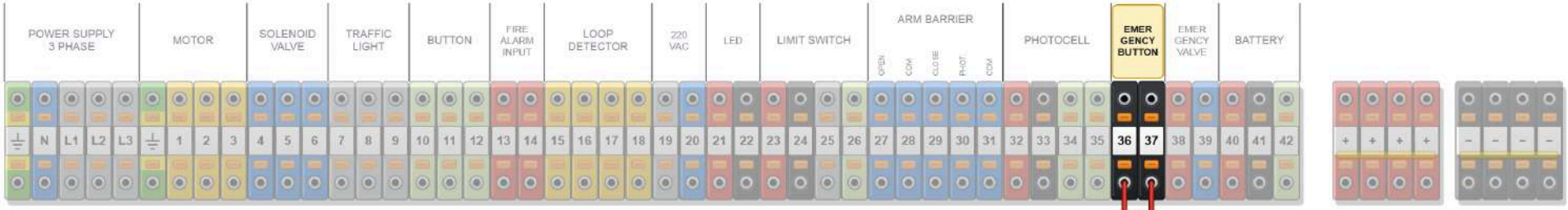
ARM BARRIER

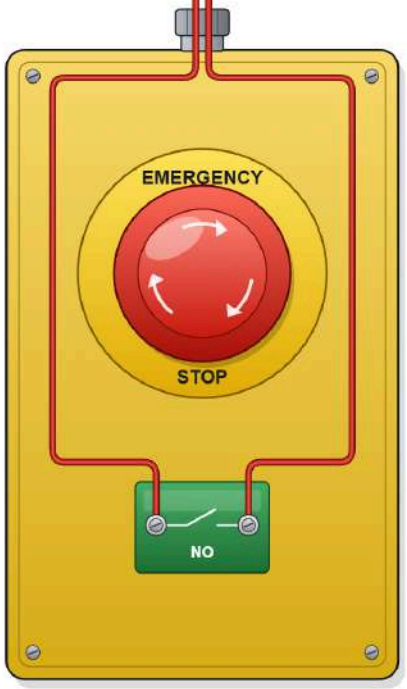
Control board inputs · terminals 27 (open), 28 (com), 29 (close), 30 (phot.), 31 (com)



PHOTOCELL

24 VDC supply: 32 (+), 33 (−) · contact: 34 (COM), 35 (NC)

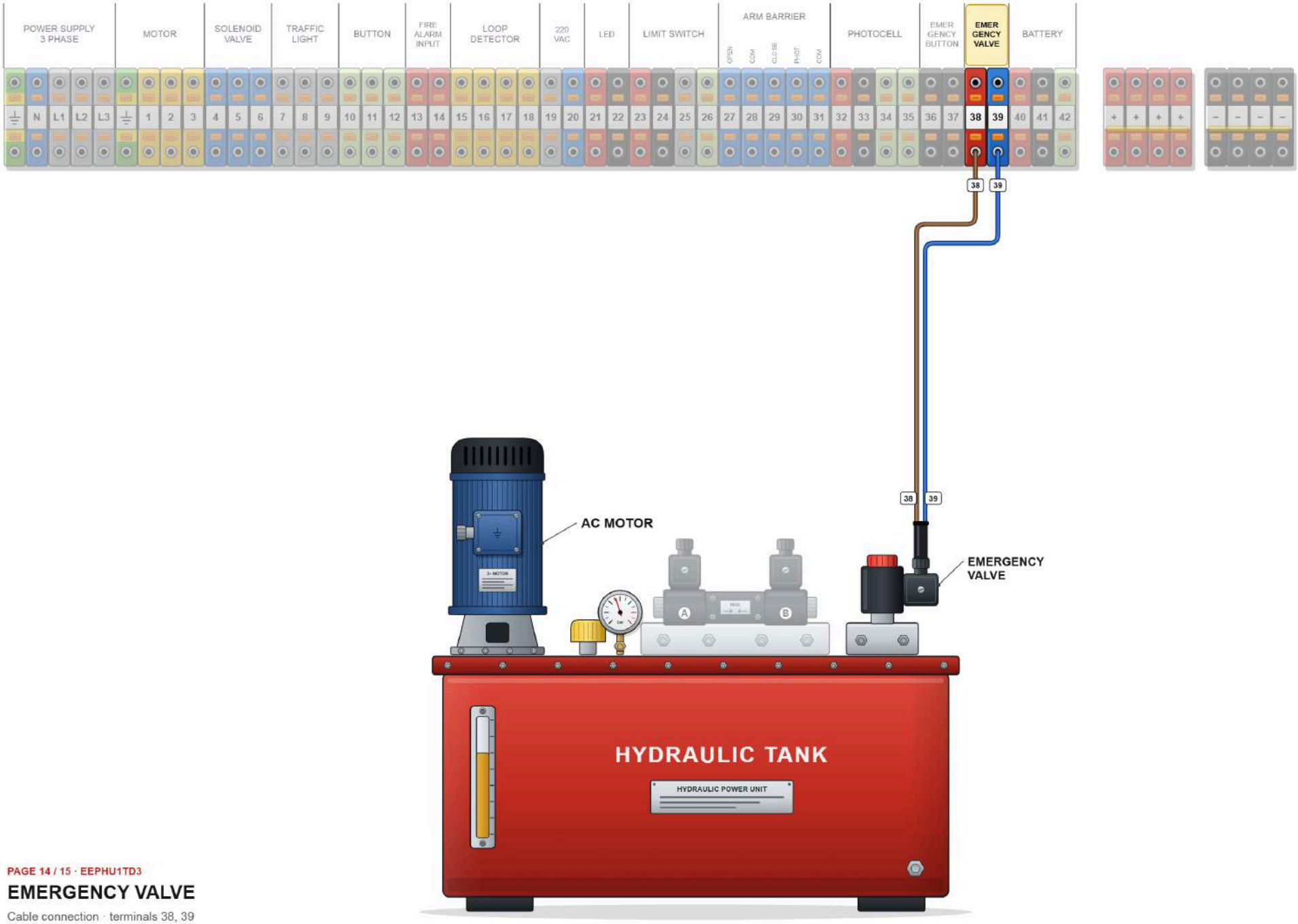




EMERGENCY STOP BUTTON

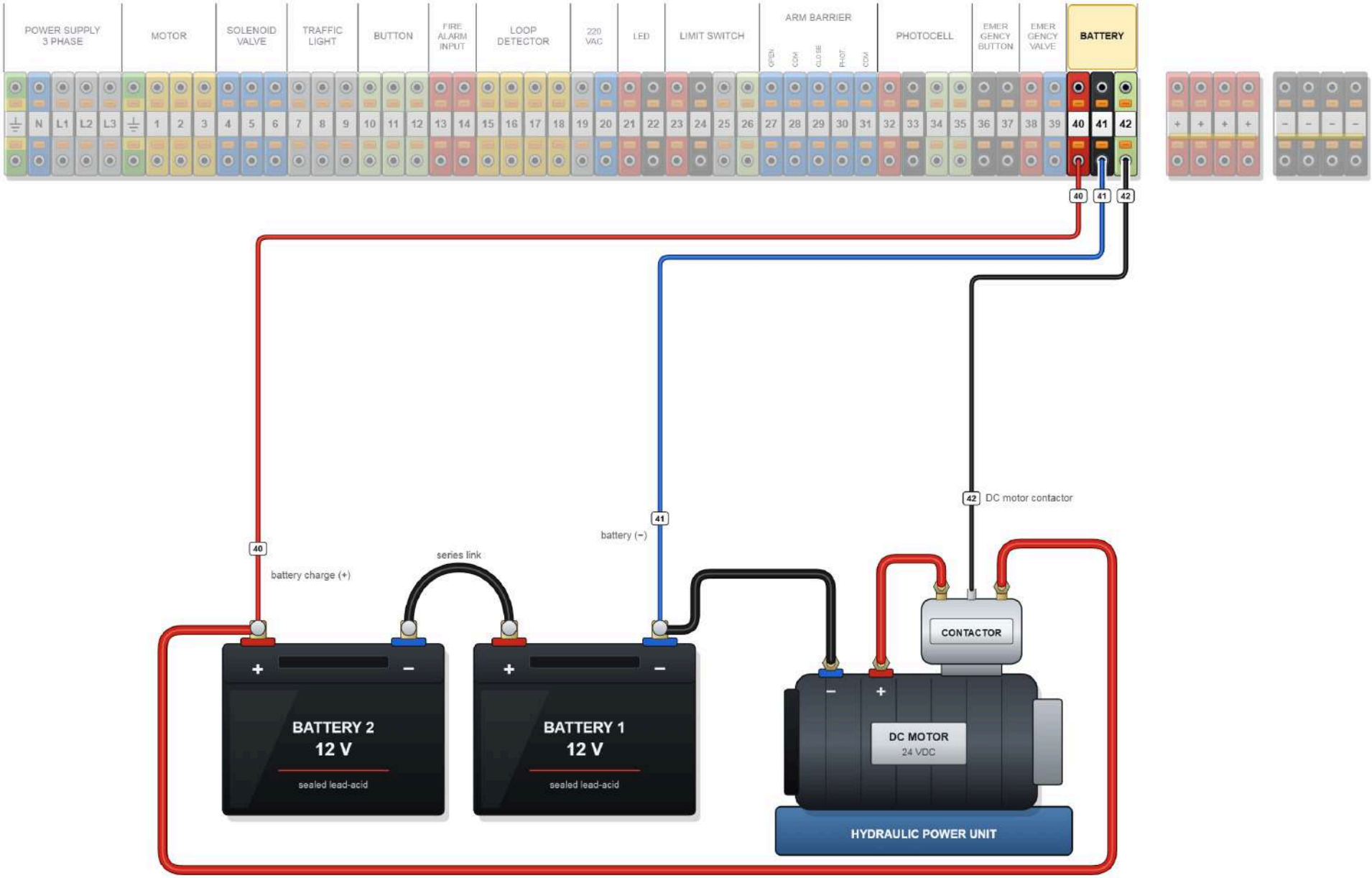
EMERGENCY BUTTON

Emergency stop station · terminals 36, 37



EMERGENCY VALVE

Cable connection · terminals 38, 39



UPS SYSTEM · BATTERY

40: battery charge (+) · 41: battery (−) · 42: DC motor contactor