



Electric Construction
Tourism Industry and
Trade Limited Co.



Pump Control Systems



We manage water.
You can use it safely.

*Diesel Pump
Control Panel*



DIESEL PANEL TECHNICAL DATA

NFPA 20

NFPA 20 is the safety standard governing the installation of stationary fire-pumps for fire protection. It specifies guidelines for selecting and installing fire pumps to ensure they deliver adequate and reliable water supplies in the event of a fire. NFPA is short for “National Fire Protection Association”. This body covers all firefighting equipment in any building, platform or anywhere else in the US. It is widely accepted worldwide as a controlling document. Fire fighting system designs in Turkey are made according to NFPA standards. Insurance companies want solutions designed in accordance with NFPA 20 Standards.

Krk Elektrik (BLACKSTN) produces fire pump panels in accordance with NFPA 20 standard in order to meet national and international demands with more than 30 years of production experience and expert sales staff.

1. General Product Informations

Fire pump control panels which serve as the heart of fire installations are designed to control and monitor electrical or diesel engines of fire pumps, for many years in accordance with international standards. Fire pump control panels generally monitor the status of the line and start the fire pump when it receives a signal from the pressure switch. They cannot be used to meet the other water needs of their facility. Pump jams and malfunctions in electrical or mechanical parts may occur due to long periods of inactivity. It is important to be able to see and intervene on time. It is important to be able to anticipate these malfunctions and take action in a timely manner. For this reason, they should be tested by running once a week. Test system is available in all our fire panels. One of the important tasks of fire pump control panels is the transmission of status/failure information audibly and visually. This process not only informs the operator in case of fire or faulty pump start, but also allows early intervention in possible failure situations.



Figure 1: NFPA 20 Diesel Fire Panel Inner View



Operating Voltage: 220VAC/12VDC&24VDC 50 Hz Protection : IP55

Operating with 4-20mA analog input (transmitter) and monitoring the pressure on the screen
If this feature is selected, no additional pressure switch is required.

Technical Specifications

- **4x20 Character Blue Screen LCD**
- **Password protection against unauthorized tampering. 2 Center password and Service password for Operator**
- **Unauthorized persons cannot make the initial activating without entering the service password. Warranty starts when activating is done. After 1 year, maintenance time warning and manufacturer information appear on the screen. The system does not stop at this warning, it is for warning purposes. Alarm is delayed for 1 year by entering the service password**
- **Single Battery System**
- **Measuring the temperature value with the heat sensor and displaying it on the screen**
- **Measuring and displaying battery voltage values**
- **Measuring and displaying oil pressure with oil sensor**
- **Protecting the starter motor by not starting when the fuel runs out. Low fuel warning**
- **Ability to limit the number of starters**
- **Low battery voltage (charging error) reporting**
- **Measuring diesel cycle (rpm) and displaying on the screen**
- **Automatic stop for low speed and high speed errors**
- **Ability to display date (day month year) on the screen**
- **Ability to set automatic test activation and deactivation times**
- **Ability to perform automatic testing two days a week (Real time clock)**
- **Ability to set automatic test commissioning and deactivation times**
- **Automatic test discharge solenoid output**
- **Heat Exchanger output**
- **Normally closed or normally open type pressure switch selection**
- **Ability to adjust the cranking time**
- **Starter cut adjustment (Oil pressure, cycle or charging dynamo)**
- **Adjustable diesel stop delay (1min-240min)**
- **BMS Feature.Reporting all malfunctions and operating conditions with relay contact**
- **Ability to use with pressure transmitter**
- **Ability to see the pressure value on screen when using with pressure transmitter**
- **Adjustment of set pressure value when using pressure transmitter**
- **Turkish-English Usage Menu**
- **Ability to set diesel maintenance time- max 250 hour or 1 year (whichever comes first)**
- **Automatic manual operation selection**
- **Manual start and stop**
- **Operation with test button via device**
- **Ability to display diesel running time on the screen**
- **Easy connection with machine plug**
- **Monitoring 80 history data and 20 past failures with date and time from memory**
- **Automatic stop in case of overheating and oil error**

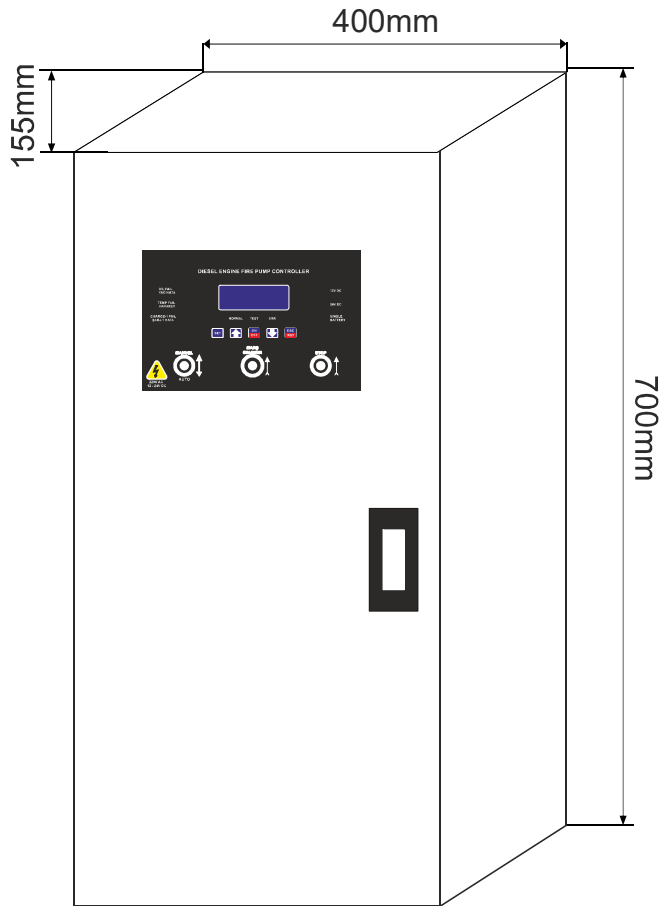


Figure 2 : Panel Dimensions

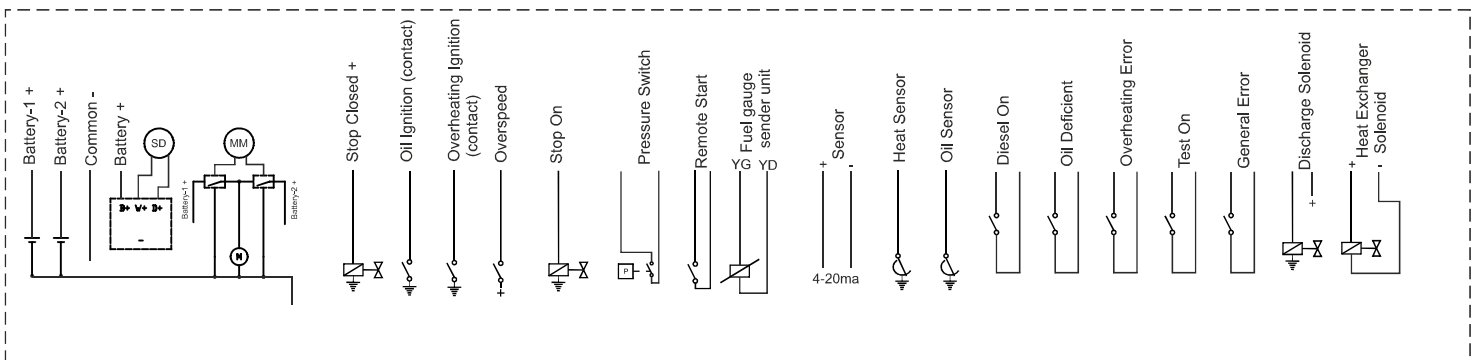


Figure 3 : Connection Diagram

CERTIFICATE

Attestation of Conformity

Name and Address of Certificate Holder:
KRK ELEKTRİK İNŞ. TURZ. SAN. VE TİC. LTD. ŞTİ.
Esenler Mah. Gözde Sok. No:1 Pendik / İSTANBUL

Certificate Number:
SE-226-05

Name and Address of Manufacturer:
KRK ELEKTRİK İNŞ. TURZ. SAN. VE TİC. LTD. ŞTİ.
Esenler Mah. Gözde Sok. No:1 Pendik / İSTANBUL

Date of Issue:
27-01-2020

Brand:
BLACKSTN

Expiration Date:
27-01-2021

Product Name:
Fire Diesel Control Panel

Test Report Number:
18-1266-R00-N01-01
LVD-226-01

Model No:
DZL-02 ; DZL-01 ; DZL-P ; DZL-EP ; BDY-01

Page:
1 of 1

Test Required:
EN 60204-1:2006/AC:2010; EN 61000-6-1:2007;
EN 61000-6-3:2007/A1:2011/AC:2012

The product meets the technical requirement of the above standards and hence fulfils the technical requirements of the following directives.

2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive

This certificate is only valid for the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirements for the product.

The CE Mark as shown below can be used, under the responsibility of the manufacturer or the importer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives.

SIGNATURE

CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ
KAYSIDAĞI MAHALLESİ GÖLÇİN SOK. NO:2/2 ATAŞEHİR/İSTANBUL/TÜRKİYE

CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ

AB-1316-T
LVD-226-01
12-2018



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Tel: 0 312 815 13 25-26 Faks: 0 312 815 13 27



DENEY RAPORU

Test Report

1/30

Müşteri Client	: KRK ELEKTRİK İNŞ. TURZ. SAN. ve TİC. LTD. ŞTİ.
Adres Address	: ESENLER MAH. GÖZDE SOK. NO:1 PENDİK/İST
İmalatçı Manufacturer	: KRK ELEKTRİK İNŞ. TURZ. SAN. ve TİC. LTD. ŞTİ.
Deneysel Numunesi Test Sample	: DZL-02
Marka Trade Mark	: BLACKSTN
Deneysel Metodu Test Method	: TS EN 61000-6-1:2011 (EN 61000-6-1:2007) TS EN 61000-6-3:2007/A1/AC:2013 (EN 61000-6-3:2007/A1:2011/AC:2012)
Deneysel Tarihi Date of Test	: 29.11.2018 – 24.12.2018
Toplam Sayfa Sayısı Total Number of Pages	: 30

Deneysel laboratuvarı olarak faaliyet gösteren LVT Test Laboratuvarları Ltd. Şti. TÜRKAK' tan AB-0341-T numarası ile IEC/ISO TS EN 17025:2012 standardına göre akredite edilmiştir.
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The test and/or measurements results, the uncertainties (if required) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür Seal	Tarih Date	Deneysel Sorumlusu Person in Charge of Test	Laboratuvar Müdürü Head of Testing Laboratory
	31/12/2018	Tarık DİLMAÇ	Cahit GÖKSEL

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FRT.50/Rev00/1018

Quality Certificates

EN 60204-1	
Safety of machinery – Electrical equipment of machines	
Part 1: General requirements	
Report reference No	LVD-226-01
Date of issue	2018-12-28
Total number of pages	10 pages
Testing Laboratory	CGS TEST HİZMETLERİ TEKNİK KONTROL VE BELGELENDİRME ANONİM ŞİRKETİ
Address	ORUÇREİS MAHALLESİ TEKSTİLKENT CADDESİ TEKSTİLKENT A21 10/ 102 ESENLER İSTANBUL/TÜRKİYE
Testing location	LVT TEST LABORATUVARLARI
Address	Saray Modern Keresteciler San. Sit. 4.Cad. No:9 Saray-Kahramankazan/ANKARA
Applicant's Name	KRK ELEKTRİK İNŞAAT TURİZM SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Address	Esenler Mah. Gözde Sok. No.1 Pendik - İSTANBUL
Test specification	
Standard	EN 60204-1:2006/AC:2010
Test procedure	Type Test
Non-standard test method	N/A
Test Report Form No.	F510_02_R3.0
Test item description	Fire Diesel Control Panel
Trademark	
Manufacturer	KRK ELEKTRİK İNŞAAT TURİZM SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Model and/or type reference	DZL-02
Rating(s)	230 /60V AC; 50 Hz



F510_02_R3.0

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