

한국전기안전공사 안전인증센터

KESCO Safety Test Center

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시 험 성 적 서 TEST REPORT

성적서 번호: STC-B15-074-02 (Report No.)

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1. 신청자

Customer

○ 기 관 명 : 파워제넥스(주) Name

○ 주 소 : 인천시 남동구 은봉로 99 (논현동, 44B9L 파워제넥스) Address

○ 의뢰일자 : 2015.02.09. Date of Receipt

2. 시험성적서 용도 : 참고시험 Use of Test Report

3. 시험대상 품목 : Valve Position Monitor Product

○ 모델명 : LSB-3 Model

○ 제조 번호: 해당없음 Serial No.

4. 시험 기간 : 2015.02.11. ~ 2015.02.23. Test Period

5. 시험 방법/항목: IEC 60529 Ed. 2.2: 2013 / IP66
Test Method/Item

6. 시험 환경

Test Environment

○ 온도 : (19 ± 1) °C Temperature ○ 상대 습도 : (44 ± 3) % Relative Humidity

7. 시험 결과 : 적합 Test Result

확 인 Conformation 작성자 Tested by

성명 김 보 람

Name B. R. Kim Signature

승인자 Approved by 직책: 기술책임자

Approved by Position

성명 우 시 윤 Name S. Y. Woo Signature

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This document certifies that the above mentioned products have been tested for the sample	provided
by the customer and it does not guarantee the quality of other products	

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2015. 02. 25. 한국전기안전공사 안전인증센터장
The head of Korea Electrical Safety Corporation Safety Test Center

□ 440-819 경기도 수원시 장안구 정조로 933번길 21 21, Jeongjo-Ro, 933beon-Gil, Jangan-Gu, Suwon-City, Gyeonggi-Do, 440-819, Korea

Test Report

IEC 60529 Ed. 2.2: 2013



		Customer:	파워제넥스㈜	
Report No.:	STC-B15-074-02	Product:	Valve Position Monitor	
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1. 시험 환경 (Test Environment)

- 온도 (Temperature): (19 ± 1) °C, 상대습도 (Relative Humidity): (44 ± 3) %
- 시험장소 (Location): Dust Chamber, IP 주수 시험장 (IP Water Test Lab.)

2. 시험에 사용된 장비 명세 (List of Used Equipment)

장비번호	사용장비명	제조회사	형식	형신	나 혀시	제조하사 형시	제조번호	교정유효일자
Equipment		Model	Serial No.	Calibration Valid Until				
A-26-04	HYGROMETER	SATO	HIGHEST2	74208	2015.05.08.			
A-75-04	Pressure Gage	HISCO	0.1 MPa	Y2086737	2015.05.13.			
A-74-01	Dust Chamber	KOBOLD	-	EN837-3	2015.08.19.			
A-74-01	Dust Chamber	ELSTER	BK6	8983	2015.08.28.			
B-01-03	Stop Watch	Time Art	PC-90	14101582-2	2015.10.15.			
B-03-03	Tape Measure	HIBO	-	L11041901	2015.05.21.			

3. 시험일자 (Test Date)

Date of receipt of test item	2015.02.09.	
Test Period	2015.02.11. ~ 2015.02.23.	

- 4. 시험 조건 (Test Condition): IP66
- 5. 시험 결과 (Test Results): Pass
 - 1) Dust Test

Test results for dust pro	otection (first characteris	tic numeral 6)
Description of test:		
1. Degree of protection	ı.	
No ingress of dust		
2. Category for enclosu	ıre;	
□ Category 1	Category 2	☐ Category 1 and Category 2
3. Testing method:		
		rough a square-meshed sieve the nominal al width between wires was 75 μm
- The amount of talcum	powder was 2 kg per cubi	c meter of the chamber volume.
- The amount of talcum	powder to be used is 2 kg pe	er cubic metre of the test chamber volume.
Category 1		

Test Report

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☐ If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h

If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

4. Test condition

The enclosure shall be deemed category 1 whether reductions in pressure below the atmospheric pressure are present or not.

5. Acceptance conditions

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

6. Test result: Pass

2) Water Test

Test results for water protection (second characteristic numeral 6)

Description of test

1. Degree of protection.

Water from projected by a nozzle against the enclosure from any direction shall have no harmful effect

2. Testing method:

- The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle.
- Nozzle internal diameter: 12.5 mm.
- Delivery rate: 100 L/min ± 5 %.
- Water pressure: to be adjusted to achieve the specified delivery rate.
- Test duration per square metre of enclosure surface area likely to be sprayed: 1 min
- Minimum test duration: 3 min
- Distance from the nozzle to the enclosure surface: between 2.5 m and 3 m

3. Acceptance conditions:

Dielectric strength test: N/A

It shall not:

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

4. Test result: Pass

Photo Documentation



Customer: 파워제넥스㈜

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[Specimen]

1. Test Condition

1) Dust test for first characteristic numeral 6

Depression: 2 kPaDuration of time: 8 h

2) Water test for second characteristic numeral 6

• Internal diameter of the nozzle: 12.5 mm

Delivery rate: 100 L/minDuration of time: 3 min

2. Applicant & Model

• 파워제넥스㈜ / LSB-3

Photo Documentation



Customer:

파워제넥스㈜

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Valve Position Monitor

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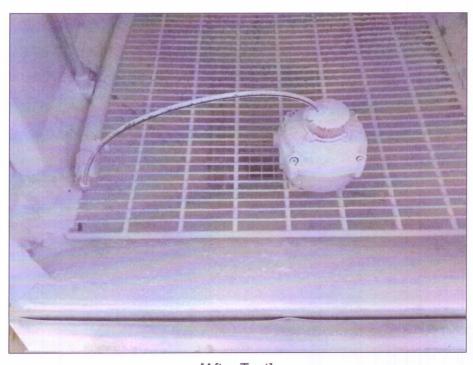
Model: LSB-3

3. Test Figure

1) Dust Test



[Before Test]



[After Test]

Photo Documentation

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Customer: 파워제넥스㈜

Product: Valve Position Monitor

Model: LSB-3

2) Water Test



[Before Test]



[During Test]