



# TEST REPORT



Report No. : 16-015352-02

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## 1. Client

Name : YOUNG TECH Co., Ltd.

Address : 81, Hwanggeum-ro, 89beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea

Date of Receipt : 2016. 03. 18

## 2. Use of Report : For Quality Control

## 3. Test Sample

Description : LIMIT SWITCH BOX

Manufacturer : YOUNG TECH Co., Ltd.

Model Name : YT-870

Serial Number : -

Remark : -



## 4. Date of Test : 2016. 04. 05. ~ 2016. 04. 06.

## 5. Test Standard/Method : IEC 60529: 2001

## 6. Testing Environment : Temperature : ( 19.7 ± 2.0 ) °C , Humidity : ( 47 ± 2 ) % R.H.

## 7. Test Results : Pass (IP67)

Note : 1. The test results contained apply only to the test sample(s) supplied by the client  
2. This test report shall not be reproduced in full or in part without approval of the KTL in advance.

Affirmation	Tested by	 (Signature)	Technical Manager	 (Signature)
	Name : Chae-Hui-dong		Name : Kim Ji-hoon	

The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2016. 04. 07

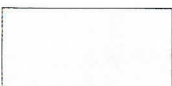
# Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



87, Digital-ro 26-gil, Guro-gu, Seoul, KOREA Tel.+82-2-860-1537 Fax. +82-2-860-1549

FP202-03-03



※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

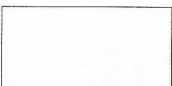


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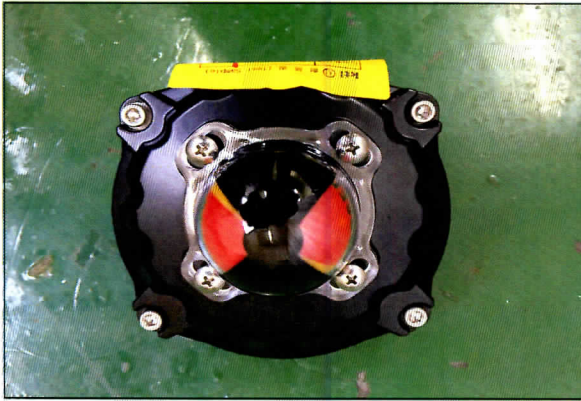
## 1. Summary of Test

### 1.1 Test Standard

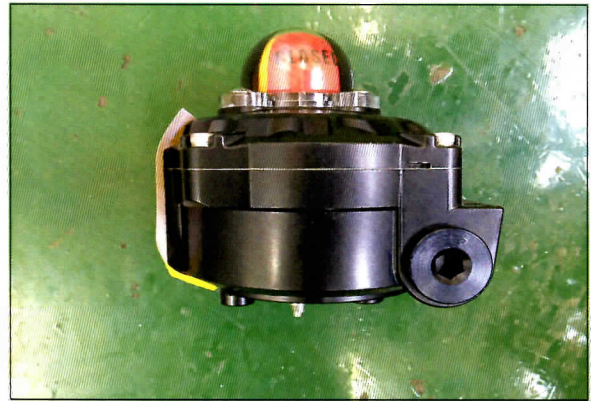
This test was conducted in accordance with "IEC 60529: 2001".

### 1.2 Test Sample

- Description : LIMIT SWITCH BOX
- Model Name : YT-870
- Dimensions :  $\Phi 136 \text{ mm} \times 153.5 \text{ mm}$  (134.1 mm)
- Rating : -



Top



Side

<Fig. 1> Test Sample

### 1.3 Remark

N/A



2. Results

Code Letters	IP	Conditions	Results
<b>1st Characteristic numerals</b>  Against ingress of solid foreign objects	6	<b>2.1 Dust Test Conditions</b> <ul style="list-style-type: none"> <li>Talcum powder(mesh) wire diameter : 50 μm</li> <li>Talcum powder(mesh) wire width : 75 μm</li> <li>Amount of talcum powder of the test chamber : 2 kg/m<sup>3</sup></li> </ul> <b>2.2 Dust Test Contents</b> <ul style="list-style-type: none"> <li>Volume of the enclosures : About 530 cm<sup>3</sup></li> <li>Reduction air pressure : -2.00 kPa (-200 mmH<sub>2</sub>O)</li> <li>Flow rate : 0.0 LPM</li> <li>Extraction rate per hour : 0 volumes/h</li> <li>Test duration : 8 h</li> </ul>	Pass
<b>2nd Characteristic numerals</b>  Against ingress of water with harmful effects	7	<b>2.3 Water Test Conditions</b> <ul style="list-style-type: none"> <li>The lowest point of enclosure : 1000 mm</li> <li>The highest point of enclosure : 847 mm</li> <li>Differential temperature of water and enclosure (less than 5K) : About 2.0 K</li> </ul> <b>2.4 Water Test Contents</b> <ul style="list-style-type: none"> <li>The duration of the test is : 30 min</li> </ul>	Pass

※ Test Environment

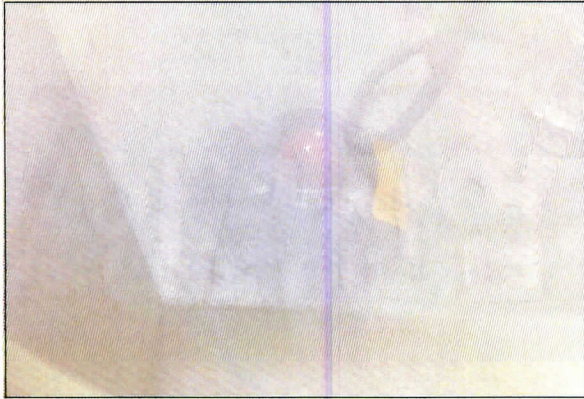
- Temperature : (19.7 ± 2.0) °C
- Humidity : (47 ± 2) % R.H.
- Atmospheric Pressure : (102.3 ± 2.0) kPa

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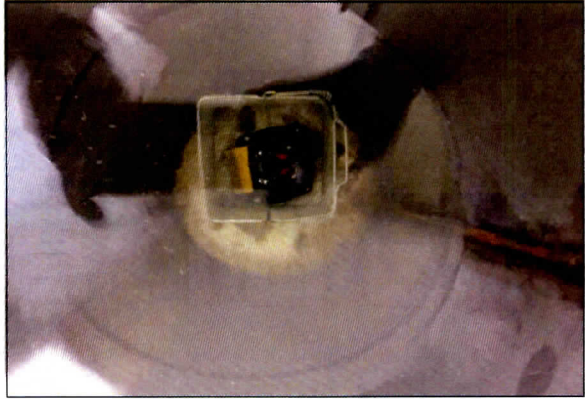


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3. Test Figures



IP 6X (Dust)



IP X7 (Water)

<Fig. 2> Test Setup





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Korea Testing Laboratory

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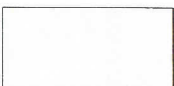


#### 4. List of Testing Equipments

Apparatus	Manufacture	Model	Serial No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Hygrometer Testo 608-H1	-	2015. 05. 26	KTL
Vernia Caliper	MITUTOYO	Vernia Caliper	7003344	2015. 09. 15	KTL
Compact Dust Chamber	SCM TECHNOLOGY	PLN600-2	-	2015. 05. 26	KTL

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