

TEST REPORT



Report No. : 25-000354-01-2

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1. Client

Name : Rotork YTC Limited

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

Date of Receipt : 2025. 01. 02

2. Use of Report : To verify IP grade to IEC 60529

3. Test Sample

Description : SMART POSITIONER

Manufacturer : Rotork YTC Limited

Model Name : YT-3350

Serial Number : -

Remark : Please refer to the clause 1.4 regarding the test sample and results.

4. Date of Test : 2025. 01. 02. ~ 2025. 01. 15.

5. Location of Test :

 KTL Permanent Test Lab (Address : 87, Digital-ro 26-gil, Guro-gu, Seoul, KOREA) On Site Testing

6. Test Standard/Method : IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015

7. Test Results : Pass (IP66)

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- The results marked as '※' are out of KOLAS accreditation scope.

Affirmation	Tested by		Technical Manager	
	Name : KONG DAEYONG		(Signature)	

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

2025. 01. 15

Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



87, Digital-ro 26-gil, Guro-gu, Seoul, KOREA Tel.+82-2-860-1305 Fax. +82-2-860-1549

FP104-03-01



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Test Results

1. Summary of Test

1.1. Test Standard

This test was conducted in accordance with "IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015".

1.2. Test Sample

- Description : SMART POSITIONER
- Model Name : YT-3350
- Dimensions : 242.5 mm × 93.5 mm × 144.0 mm



[Fig. 1: Sample]



[Fig. 2: Sample]

1.3. Test Environment

- Temperature : (21.3 ± 2.0) °C
- Humidity : (44 ± 2) % R.H.
- Atmospheric Pressure : (101.32 ± 2.00) kPa

1.4. Remark

The cable entry was assembled with the plug (Refer to Fig. 1)





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2. Results

Code Letters	IP	Conditions & Results
1st Characteristic numerals Against ingress of solid foreign objects	6	2.1 Dust Test Conditions (Category 1) <ul style="list-style-type: none"> Amount of talcum powder in the test chamber: 2 kg/m³ * Talcum powder: Pass through a square-meshed sieve (wire diameter: 50 μm, gap of wire: 75 μm) Internal free volume of the sample: 1 200 cm³ Depression of sample: - 2.00 kPa Extraction flow rate: About 0.01 L/min Extraction rate of volume per hour: About 0.5 Test duration: 8 h
		2.2 Dust Test Result <ul style="list-style-type: none"> Pass
2nd Characteristic numerals Against ingress of water with harmful effects	6	2.3 Water Test Conditions <ul style="list-style-type: none"> Internal diameter of the nozzle: 12.5 mm Delivery rate: (100 ± 5) L/min Core of the substantial stream: Circle of 120 mm diameter at 2.5 m distance from the nozzle Distance from nozzle to enclosure surface: (2.5 ~ 3.0) m Test duration: 3 min
		2.4 Water Test Result <ul style="list-style-type: none"> Pass

3. List of Testing Equipments

ICP No.	Equipment	Model	Manufacturer	Date of next Calibration
ICP20140892	Thermo-hygrometer	Testo 622	Testo	2025-04-04
ICP20142326	Timer	HS-30W	CASIO	2025-07-10
ICP20160207	Vernier Calipers	CD-20APX	Mitutoyo Corp.	2025-12-31
ICP20230088	Flowmeter(IP5X, IP6X)	RMA-21-SSV	Dwyer	2025-10-18
ICP20230083	Pressure Meter	PM-80	Digitron	2025-10-18
ICP20150325	Flowmeter(IPX5, IPX6)	GA-101	KOMETER	2025-04-25
ICP20190032	Nozzle(IPX6)	None	SCM	2026-01-06

FP104-04-00



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4. Test Figures



[Fig. 3: IP6X]



[Fig. 4: IPX6]

5. Dust Test Result Figures



[Fig. 5: IP6X]



[Fig. 6: IP6X]

6. Water Test Result Figures



[Fig. 7: IPX6]



[Fig. 8: IPX6]

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