

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES PATTERN TEST REPORT

Test Standard : IEC 60529(2001)

Date of Receipt : 2016 / 02 / 18

Test Date : 2016 / 02 / 22 ~ 2016 / 02 / 24

Result of determination this subclass type experiment : **PASS(IP67)**

1. Issue date for test report : 2016 / 03 / 15
2. Report No : 16021809
3. Total pages : 7
4. Test report without steel stamp is not valid, and shall not be reproduced except in full.
5. Test sample is not sampling by laboratory, test result relate only to the items tested.
6. Test report is not responsible for advertisement or promotion for products.

Approved Signatory:





Test Report

Information for test items

Applicant : TAIWAY ELECTRONICS COMPONENTS CO., LTD.

Applicant's address : 6F, No.4, Lane 359, Section 2 ZhongShan Road, ZhongHe District, New Taipei City, Taiwan

Manufacturer : TAIWAY ELECTRONICS COMPONENTS CO., LTD.

Manufacturer's address : 6F, No.4, Lane 359, Section 2 ZhongShan Road, ZhongHe District, New Taipei City, Taiwan

Product : Anti-Vandal M12 Pushbutton Switches (AV series)

Model No. : AV04-B4-M1

Series model : AVx-B4x-x(X=0~220, A-Z)

Uses the place : in door out door

Test Standard : IEC 60529 IEC 60598-1

Application test rank : IP67

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Test content

Test Levels	Test standard (IEC 60529)	Result of test	Determination
Temperature : 25.3 °C Humidity : 54.4 %RH			
Degrees of protection against access to hazardous parts and protection against solid foreign objects indicated by the first characteristic numeral			
IP6X	The test wire of 1.0 mm shall not penetrate and adequate clearance shall be kept.	Not penetrate and adequate clearance be kept.	PASS
	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not. The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.	No dust into the test box.	
Degrees of protection against water indicated by the second characteristic numeral			
IPX7	The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied 1) the lowest point of enclosures with a height less than 850mm is located 1m below the surface of the water. 2) the highest point of enclosures with a height equal to or greater than 850mm is located 150mm below the surface of the water. 3) the duration of the test is 30 min.	No water into the test box.	PASS

Photo of test items

The appearance of photo



The appearance of photo



Photo of test items

IP6X testing



IP6X after the test



Photo of test items

IPX7 testing



IPX7 after the test





Equipment list and testing engineer for test

Item	Equipment No	Equipment	Manufacturer / Type / Series No
1	99S-04	Bears the dust testing machine class dust + Floating dust	TAICHY TECHNOLOGY LTD DT-1500CF
2	99S-10	IP test touch and access wire	Shanghai Haiyue Electric / DTPP-1.0/100
3	99S-20	Bears the rain water testing machine	TAICHY TECHNOLOGY LTD RT-IEC-IPX7.8
			Testing engineers : Chun-Ting Liu

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