

INSTRUCTION SHEET

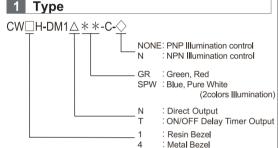
Touch less Switches Φ22 CW Series Flash Silhouette

Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user.

SAFETY PRECAUTIONS

⚠ CAUTION

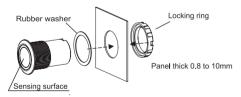
Caution notices are used where inattention might cause personal injury or damage to equipment.

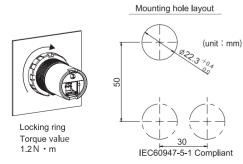


2 Installation

To mount the product onto a panel, tighten the locking ring to a tightening recommended torque using ring wrench MW9Z-T1. Mount the product on a flat surface.

If installed on an uneven surface, the product may be damaged or the waterproof performance may be impaired.





Please determine the mounting pitch consider operability and wiring

3 Specifications CW4H-CW4H-CW4H-CW1H CW1H-CW1H DM1NGR-C DM1TSPW-C Illumination control DM1NGR-C DM1TGR-C DM1NSPW-C DM1NSPW-C Type No. CW1H-CW1H CW4H-CW4H-Illumination control DM1NGR-C-N DM1NSPW-C-N DM1NGR-C-N DM1NSPW-C Ambient Temperature Operating: -25 to +55°C. Storage: -35 to +70°C (no freezing) Ambient Humidity Operating: 35 to 95%RH, Storage: 35 to 95%RH (no condensation) Detection System Diffuse-reflective Adjustment range of 120 to 350mm [using white mat paper, 200×200mm] Maximum sensing range If detection object is hand, approximately 70 to 270mm (reference value) Infrared LED Light Source Power Voltage 12 to 24V DC Ripple ±10% (main circuit and illumination part) Current Consumption 40mA maximum (main circuit), 20mA maximum (illumination part) Solid State Relay (PhotoMOS) output Voltage drop : 1.0V maximum Control Output Load voltage: 26.4V DC maximum Rated operational current (Load current): 100mA Protection Circuit Protection circuit on reverse connection of power supply Response Time Turn on ≦ 2.5ms. Turn off ≦ 1ms 0.5±0.1s ON Delay 0.5±0.1s 2.0±0.5s 2.0±0.5s OFF Delay Bezel · Body PA66 Aluminium allov Material Lens DIMINA Blue LIGHT1 Green Green Light color LIGHT2 Pure White Red Pure White Degree of protection IP65, IP67, UL Type4X (QUTDOOR USE) %Front panel

4 Notes for Operation

- Do not use the product during the transient time of 100ms after turning on the power supply.
- If the product and the load are connected to different power supplies, the product must always be turned on first.
- Do not install the product nearby induction device, or heat source. Choose locations free from frequent vibrations, shocks, dust, toxic gases, water, oil, chemicals, icing and dew, so as to prevent malfunctions and damage.
- Do not expose the sensing surface to sunlight or other direct light projections.
- Please be caution that the detection distances should be extremely long with specular objects or retroreflectors, it may detect in an unexpected range.
- Do not use the product with water drops, dirt etc, remaining on the sensing surface, as unintended operation and detection performance may change.
- To remove dust and moisture build-up, use soft dry cloth.

 PMMA is used for optical elements. Do not use organic solvents such as ammonia, caustic soda, alcohol or thinner for cleaning.

/ CAUTION

 Do not apply the voltage over the rated range or AC voltage, otherwise the switch may blow out or burn.

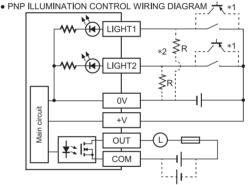
5 Wiring

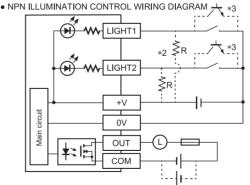
- Turn off the power supply before wiring.
- The incorrect wiring may cause damage to the internal circuit please refer the wiring diagram.
- The power voltage must use within the rated range.
- When using a switching power supply, make sure to ground the FG (frame ground) terminal.
- Do not install the product wiring in the same conduit with high-voltage lines and power lines.
- If the wiring is long, or if there is a risk influence from power source and electromechanical devices etc, use it as an independent wiring.
- The illumination part may light dimly due to the influence of Leak current, induction noise, etc.

In that case, take countermeasures by connecting the following shunt resistors shown in the table below between each terminal of LIGHT1 and LIGHT2 and 0V for PNP Illumination control type or +V for NPN Illumination control type.

(Refer to the following WIRING DIAGRAMS)

Shunt resistor R		
Resistance value	Power	
20kΩ	0.25W minimum	





-(L)- : Load

: Overcurrent protective devices such as fuses. (100mA maximum)

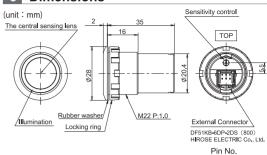
- *1 NPN connect unavailable
- *2 Connect only during dim light countermeasures
 *3 PNP connect is not recomended

2	0V
3	OUT
4	COM
5	LIGHT1
6	LIGHT2

Pin No

Terminal name

6 Dimensions



Parts	Model number	Manufactures	Qty.	
Crimp socket	DF51K-6DS-2C(800)	HIROSE	1	
Socket contact	DF51K-22SCF(800) or DF51K-22SC(800)	ELECTRIC Co., Ltd.	6	

6 4 2

<Cable (Sold separatery)>

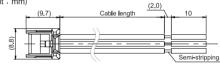
CW9Z-CN-% (%Cable length[mm])

• AWG #22

<Connector>

Regarding except 200mm length Please Contact Sales





Pin No.	Colors	Notes
1	Brown	+V
2	Blue	0V
3	Black	OUT
4	Black	COM
5	Gray	LIGHT1
6	Pink	LIGHT2

7 Precaution for Disposal

· Dispose of the CW-H as an industrial waste

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