SD21 OPTICAL LEVEL SWITCH OPERATING INSTRUCTIONS

SPECIFICATION

Power range: 10 ~ 28 Vdc
Current consumption: <25 mA
Output mode: NPN / PNP

• Output function: NO + NC

Load current: <200mAWorking pressure: <60bar

 Electrical protection: reverse polarity protection, short circuit protection

Delay time: 5 sec ± 1 sec (optional)

• Anti ambient light interference: <500 Lux

Operating temperature: -20~100°C
Ambient temperature: -20~80°C

Waterproof, protection class: IP67
Indicator light: red status indicator

(only cable type)

• Cable specifications (with cable):

 Cable Silicone rubber jacket,24AWG, length 2m,the 4C (Blue, White(Green), Black and Brown)

Connection size: 3/8 "/ 1/2"
Thread options: PT / PF / NPT
Body material: SUS304 / SUS316

Prism material: glass

WIRING

Туре	High Position delay		Low Position delay		Standard	
Position						
LED	•	->	->	•	•	->-
Green wire		_/。_	_/_		_/。_	
Black wire	_/。_			_/。_		_/。_

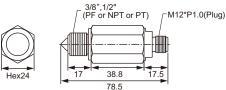
Mode of operation	Wire Color	Wiring
NO	Green	NPN Brown + White(Green) Blue Blue Blue Blue Blue Blue Brown
NC	Black	NPN Brown + White(Green) Blue Blue Blue

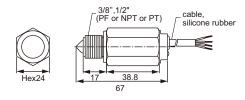
CAUTION

- The recommended tightening torque for the standard sealing ring (O-ring) is 8-12 kgf-cm.
- This torque may vary depending on the internal pressure of the pipe/barrel or if the material is changed.
- Maximum Allowable Torque for the Casing: 75Kaf-cm
- This product is not suitable to the solutions containing adhesion and suspended materials in it or viscous liquids.
- This product may not work in part of emulsion and liquids which are in semi—solid state.
- Turbidity type can detect the turbid solution in level of 4000NTU.
- Instruction for time delay type:
 - ♦ High position with time delay type (SD21□□□□4□, SD21□□□□6□) It will switch as continually contacting liquid for 5 seconds, will switch back immediately as leaving the liquid.
- ▶ Low position with time delay type
 (SD21□□□□5□, Sd21□□□7□)
 It will switch as continually leaving liquid for 5 seconds, will switch back immediately as contacting the liquid.

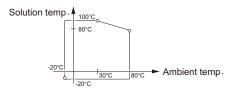
DIMENSION

(Unit:mm





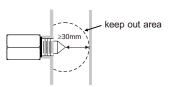
 The correspondence for temperature of detected liquid and ambient temperature is as below:



- This product can not be used in the environments with infrared light source.
- The installation is recommended as shown below, the best installation angle is from horizontal 0° to 45°.



- This product can not be installed in the liquid entry point.
- There should be no objects or surface which might occur reflection or other interference within the radius of 30mm for prism tip.
- As it mounts with the threaded sleeve, the prism tip must be exposed out of sleeve.
- The distance between prism tip and tank wall must be at least 30mm.



REGULAR MAINTENANCE

- In poor conditions, should be cleaned regularly the tip which contact liquid.
- Do not use scouring pads to scrub, to avoid damaging to the sensor.









