



G021876

System: Salwico CCP

# Smoke and heat detector with SCI

## CD-PH

Part no. 5101610-00

### General Description

CD-PH is an analogue addressable combined optical smoke and heat detector provided with short circuit protection (SCI).

The short circuit isolator function is fully transparent and does not require any settings.

#### Features and benefits:

- Individual generation of heat and smoke alarms
- Function of detector (heat, smoke, or both) is configured during commissioning with the configuration tool
- Adjustable smoke sensitivity level
- LED indicator with red light
- Protection against unwanted alarms
- Output for remote indication or sounder
- Periodic built-in self test (BIST)

For information about suitable base plates, see separate document "Base Matrix".

### Data

Sensor	Optical light scattering + thermistor, class A1R (fixed 54 °C + rate of rise function according to EN54-5)
Operating voltage	20–38 V DC
Quiescent current	0.2 mA
Alarm current	1.5 mA
Current for remote indication	Max 4 mA
Power consumption	7 mW in normal conditions

Loop communication protocol	IDANx
Operating temperature	-40 °C to +70 °C
Storage temperature	-40 °C to +70 °C
Ambient humidity	0 to 95% RH non-condensing
Ingress protection	Depends on base
Material	PC/ABS
Colour	Signal white, RAL 9003
Weight	105 g ± 5%
Dimensions	Diameter Ø104 mm Height 41 mm (as mounted on base)

#### Certification:

Certified according to Compass Safe Distance according to IEC 60945



0560/yyyy

yyyy = year of production

EN 54-5: 2017 + A1: 2018

EN 54-7: 2018

EN 54-17: 2005 / AC: 2007

### Data for built-in short circuit isolator (SCI)

Minimum switch open voltage ( $V_{so}$ min)	9 V DC
Maximum switch open voltage ( $V_{so}$ max)	11 V DC
Minimum switch close voltage ( $V_{sc}$ min)	10 V DC
Maximum switch close voltage ( $V_{sc}$ max)	12 V DC
Maximum line current ( $I_c$ max)	800 mA
Maximum switching current ( $I_s$ max)	1500 mA

Maximum leakage current ( $I_l$ max)	13 mA
Maximum switch resistance ( $Z_c$ max)	80 m $\Omega$

## Contamination prevention



### NOTE!

Do not remove the dust cover from the detector until all polluting (dusty) activities are finished and the area has been cleaned.

### Environmental compensation

During normal use of a smoke detector the smoke chamber can become contaminated by tiny particles like dust. Our system has an algorithm that constantly compensates for the contamination up to a certain point. Thereafter the detector needs to be replaced.

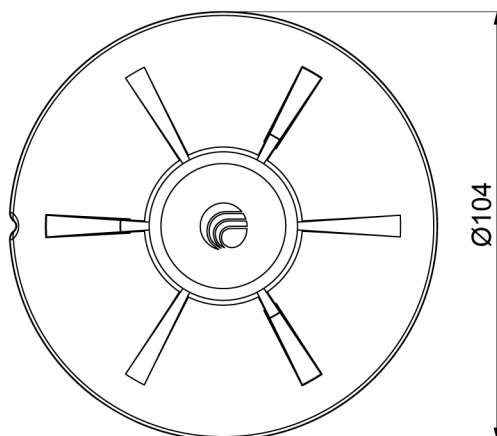
When the compensation level has reached 50% and above, the compensation information can be accessed through the menu system, in the condition list. The detector enters *Satisfactory condition* (50–80% compensated), or *Poor condition* (81–99% compensated). If a detector becomes compensated by 100% or more, a *Dirty sensor fault* will be generated and the detector should be replaced.

### Mechanical dust protection

At delivery the detector is provided with a dust cover to protect it during transport and installation.

When in use, the detector has a fine mesh that blocks particles and the like from entering the smoke chamber; in order to reduce the rate of environmental contamination.

## Dimensions (mm)



## Programming tool

The technical detector address is set with a special programming tool. Valid addresses are 1 to 254.



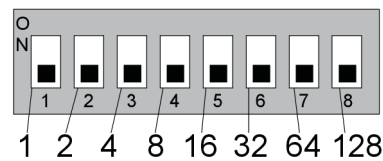
### NOTE!

The address switch needs to be set to zero (0) for the programming tool to work.

## Address switch

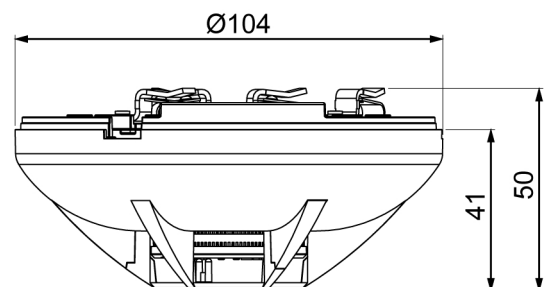
The loop units are identified by a technical detector address. The address number is set on an 8 pole DIP switch located on the loop unit.

Carefully loosen the sticker that protects the access hole for the DIP switch. Use a pointed tool of suitable size to set the address number. Then reattach the sticker, making sure it completely covers the hole.



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1 to 254 are valid addresses. The DIP switch value follows the binary system.



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