



Smoke and heat detector with SCI

CD-PH

Part no. 5101610-00

G021876

System: Salwico CCP

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)



NOTE

It is possible to connect up to a maximum of ten (10) CD-PHs in parallel between two (2) SCIs.

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)
Compass Safe Distance according to IEC 60945	300 mm

Certification:

Certified according to



2531/yy

yy = year of production

DoC no. DOC-006136



8504/yy

yy = year of production

DoC no. DOC-009516

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)	120 mΩ

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.

Programming tool

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



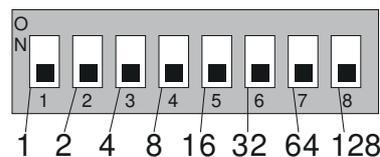
NOTE

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.

Connection



TIP

For connection, please refer to the data sheets for IP-ADAPT (5100775-00A) and CD-B (5101509-00A).

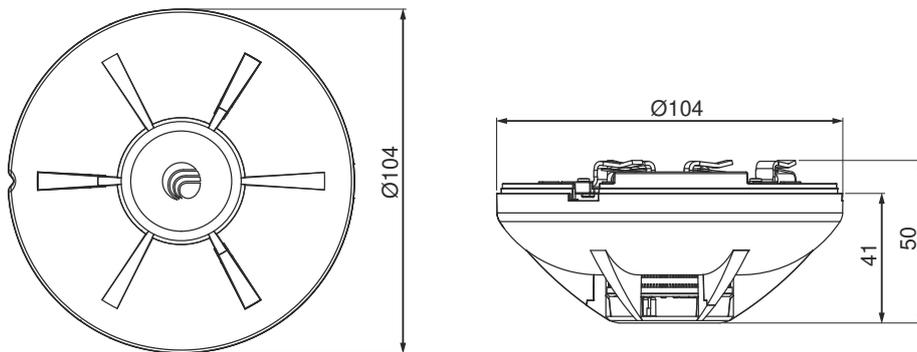
Cleaning

**WARNING****Never use solvents**

Never use solvents such as trichloroethylene to clean the detector.

The use of solvents causes cracks in the polycarbonate (PC) housing.

Dimensions (mm)



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