CS-PYH Programmable Smoke & Heat Detector

Product reference	
Part No.	5210020-00A
Manufacturer	Consilium / Salwico
Model	CS-PYH



Product overview

Programmable CS-PYH smoke/heat detector; CFD5000 T. Original T_EN_2019_B four-page source retained; current certificate validity unknown.

Technical specifications

Smoke test / replacement	When smoke-configured: Testifier/Solo 330; spray 1 s, wait 10 s, spray 1 s; repeat to red alarm. No alarm after 3 attempts: replace. Follow tester datasheet and system Service & Maintenance manual.	Accessories / connection	Bases: 5100449-00A/5100774-00A; adapter: 5100775-00A; CD-S 5100626(as printed). Wiring: IP-ADAPT/UB-6-PA66 datasheet; loop cable: system Installation & Commissioning manual.
UL temperature classes	Ordinary: operating 15–122 °F(-9 to+50 °C); installation 32–100 °F(0 to+38 °C). Intermediate: 15–167 °F(-9 to+75 °C); 32–150 °F(0 to+65 °C).	Built-in self-tests	Continuous hardware/A-D test; every 5 min, all internal/testable loop-unit communication paths from detection to fire reporting. Test log export: USB stick.
Detection configurations	Heat-assisted smoke: TF2–TF5/TF8 for A1R/CS/CR; also heat-assisted smoke for A2S. Smoke: 5 sensitivity levels, default 3 Normal.	Test equipment / hazardous areas	Testifier 5200112-00A; Solo 461 N1743(heat); Solo 330 N1738(smoke). Testifier/Solo 461 not approved in hazardous environments.
Contamination compensation	Maintains sensitivity, avoids false alarms; slight contamination: warning/still operates; excess: fault alarm. Fine mesh limits chamber dust.	Printed standards / safety scope	UL268/521; EN50155; EN45545-2; SIL 1/2 environment suitability as printed. Current validity unknown.
Humidity / enclosure	0–95% RH, non-condensing; polyamide6.6; white RAL9003; 110 g±5% without base.	SCI switching thresholds	Open→Close 22±2 VDC; max non-energized-side load≈1.2 kΩ. Close→Open 14±2 VDC.
Protective cover	Keep through painting/dust work until area cleaned; remove all covers before system operation.	Original dimensions	Ø104 mm; 50 mm overall height; 40.2 mm subordinate vertical dimension. Original four-page source retained.
IP rating / required base	IP22 with UB-6-PA66 5100449-00A; IP44 with IP-BASE 5100774-00A. Rating depends on base.	Address setting	8-pole binary DIP: 1/2/4/8/16/32/64/128; addresses 1–150. Suitably sized pointed tool.
Local processing / protocol	Local CPU alarm evaluation; IDAxt extends IDA for SIL 1/2 data integrity, reliability, robustness.	Safe I/O configurations	Fault/General inputs: High/Low active, monitored for breaks/shorts. RIL output: active level NA, not monitored.
Functional-safety data	Type B; HFT 0; SFF 95%; PFD avg 2.89×10^-4 at MTTR 8 h, proof-test interval 1 year.	Cleaning safety	Electrostatic charging hazard: exterior damp-cloth cleaning only to prevent static build-up.
EN 54-5 rate-of-rise response	10 °C/min: A1R from 25 °C in60–260 s; CR from 55 °C in120–330 s. A2S/CS: no alarm response.	SCI current limits	Ic max continuous 500 mA; Is max switching 800 mA; IL max short-circuit leakage <1 mA.
Sub-loop / Safe I/O limit	Current limited 5 mA; remote indication or supervised dry-contact reading.	Operating voltage / current	22–38 VDC; normal 0.1 mA±5%; alarm with LED activated 3 mA±5%.
Operating / storage temperature	Both -40 to+70 °C; UL ranges remain class-specific.	Heat test	When heat-configured: Testifier/Solo 461, apply heat until red alarm LED.
Compatible system / sensing	CFD5000 T; addressable light-scatter smoke + thermistor heat sensing.	EN 54-5 A1R / A2S	Application -40 to +50 °C. Response: A1R +54 to65 °C; A2S +54 to70 °C.
SCI function	Isolates loop shorts; probe detects removal and restores without loop restart.	EN 54-5 CS / CR	Application -40 to +80 °C; response +84 to100 °C for both classes.
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