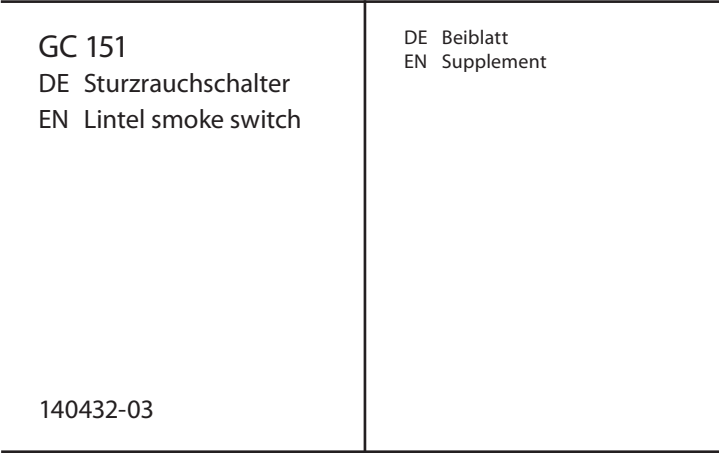


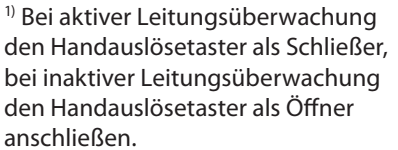


 Dokument FA GC 150 - Anleitung zur Montage, Inbetriebnahme, Bedienung und Wartung beachten, ID 141511.

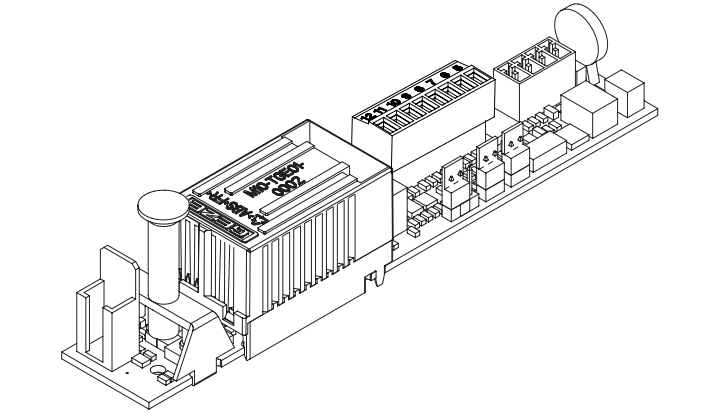
Sturzrauchschalter GC 151	ID 142250
Funktionsprinzip	Streulicht, Alarmschwellennachführung, selbstrückstellend
Standard	EN 54-7
Eingangsspannung	24 V DC
Eingangsstrom	maximal 15 mA
Einbaulage	Wand-(Sturz-)montage, waagerecht
Schutzart	IP20, nur für trockene Räume
Umgebungstemperatur	-5°C bis 50°C
Ausgänge	Feststellvorrichtung Alarm
Eingänge	Deckenmelder Handauslösetaster
Bedienelemente	Betrieb-/Fehler LED, Prüftaste
Meldertest	Alarmauslösung - mit Prüftaste - mit Prüfaerosol

Der GC 151 ist ein Sturzrauchscharter zur Verwendung in der GEZE Feststellanlage FA GC 150.

Rauchscharter erkennen Rauch. Sie arbeiten nach dem Streulichtprinzip. Ein Lichtsender und ein Lichtempfänger sind in der Messkammer so angeordnet, dass normalerweise kein Licht auf den Empfänger fällt. Befinden sich Schwebeteilchen (Rauch) in der Messkammer, so streuen diese einen Teil des Lichtes auf den Empfänger, der dieses in ein elektrisches Signal umsetzt. Der Rauchscharter GC 151 löst im Alarmfall und bei Netzausfall die Feststellvorrichtung, indem er die Stromversorgung unterbricht.



²⁾ Anzeige nur, falls Leitungsüberwachung aktiv (Jumper J3)



GC 151 EN Lintel smoke switch DE Sturzrauchschalter	EN Supplement DE Beiblatt
140432-02	



Lintel smoke switch GC 151

EN 54-7
EN 14637

- Document FA GC 150 - Observe instructions for installation, commissioning, operation and maintenance, ID 141512.

Technical data

Lintel smoke switch GC 151	ID 142250
Functional principle	Diffused light, alarm threshold tracking, self-resetting
Standard	EN 54-7
Input voltage	24 V DC
Input current	Maximum 15 mA
Installation position	Wall (lintel) installation, horizontal
Protection type	IP20, only for dry rooms
Ambient temperature	-5°C to 50°C
Outputs	Hold-open device Alarm
Inputs	Ceiling detector Manual release button
Control elements	Operation/Error LED, test button
Detector test	Alarm activation - with test button - with test aerosol

Use

The GC 151 is a lintel smoke switch for use in the GEZE hold-open device FA GC 150. Smoke switches recognise smoke. They operate on the principle of diffused light. A light emitter and a light receiver are arranged in the measuring chamber in such a way that normally no light falls on the receiver. If there are suspended particles (smoke) in the measuring chamber, this scatters a portion of the light on the receiver, which converts it into an electrical signal. In the event of an alarm or power failure, the smoke switch GC 151 activates the hold-open device by interrupting the power supply.

A smoke switch recognises not only smoke, but also all other suspended particles and is sensitive to pollution.

Substitute for lintel smoke switch ORS 141

ORS 141, ID 079243

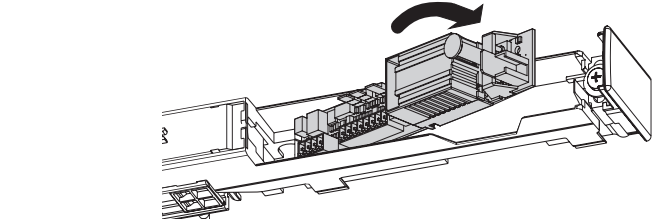
If a soiled ORS 141 is replaced by a GC 151, switch the line monitoring of the GC 151 off (jumper J3)

Protection of the smoke switch against dirt accumulation

- Install the smoke switch only after completion of construction at the time of the initial operation of the hold-open device.
- The protective packaging of the smoke switch should only be removed immediately before use.
- After the installation of the smoke switch and removal of the dust cover, ensure that dust does not enter the measuring chamber. Otherwise it may result in increased dust accumulation that can significantly shorten the service life of the smoke switch.
- The measuring chamber of the smoke switch should not be opened.

Installation of lintel smoke switch in the hold-open device

- Disconnect the power supply before installation of the lintel smoke switch.
- The lintel smoke switch is a sensitive electronic product and must be protected against electrostatic discharge:
 - Remove the protective packaging of the lintel smoke switch only immediately before installation.
 - Do not touch electronic components.
- The lintel smoke switch is clipped into the housing of the hold-open device. Observe installation instructions of the hold-open device.

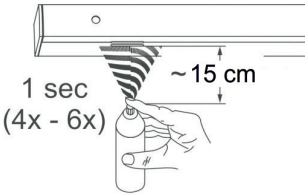


Testing the lintel smoke switch GC 151

- Systems may only be tested with an aerosol that evaporates without leaving any residue.

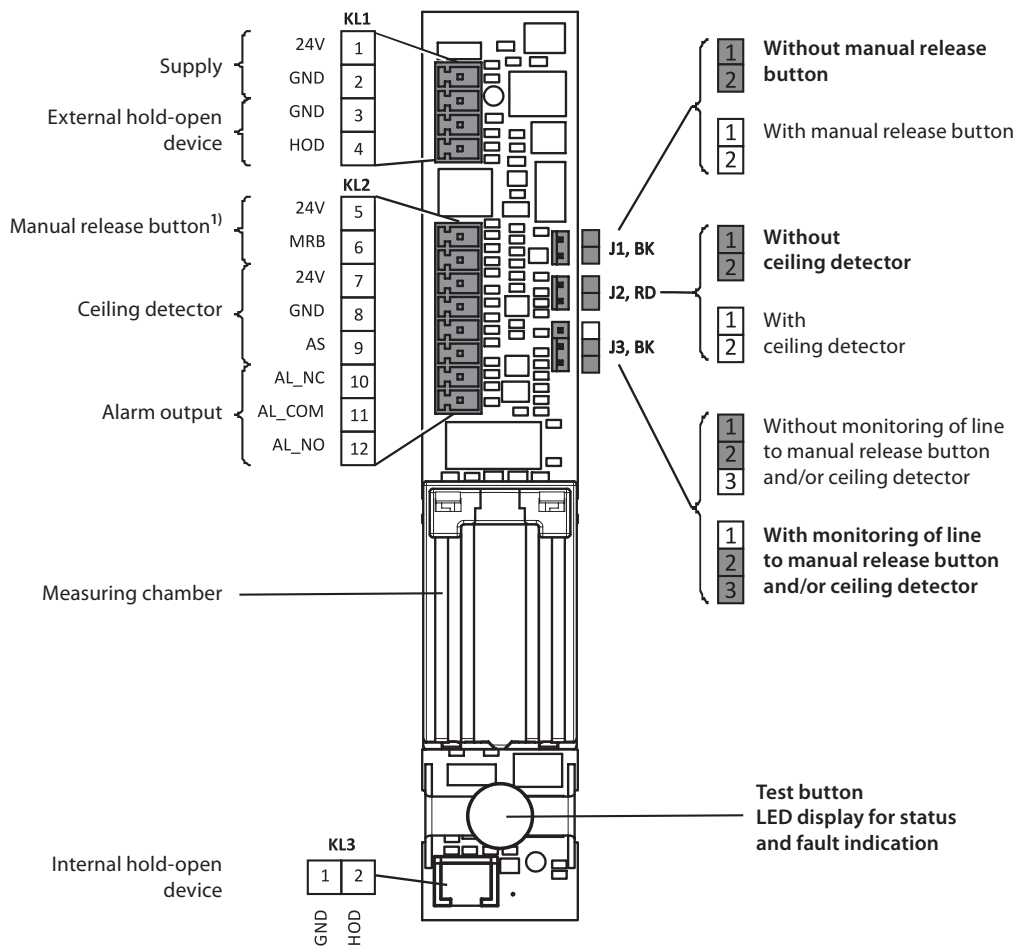
Carry out the following steps within about 2 minutes (test aerosol ID 059168):

 - Press the test button, the status display changes from green to yellow. Wait until the status display lights up green again.
 - Fully open the door leaf. Door leaf is kept in the open position by the hold-open system.
 - Now spray the test aerosol from a distance of about 15 cm into the free smoke opening in short bursts lasting about 1 s with 1 s between bursts, covering the upper smoke opening for this. The smoke detector must trigger (change of status indicator from green to red). The door closes.



- Line monitoring may only be deactivated when used as a spare part in old systems without line monitoring (ORS 141).
- Switch the mains voltage off before changing the jumper setting (remove terminal clamp KL1). The new jumper setting only becomes active after the mains voltage has been switched back on again.

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Shortcuts

- AL Alarm
- AS Ceiling detector (additional sensor)
- GND Reference potential (ground)
- HOD Hold open device
- MRB Manual release button
- NC Opener contact (normally closed)
- NO Closer contact (normally open)

Colours

- BK Black
- GN Green
- RD Red
- YE Yellow

Jumper is plugged in

Jumper is removed

¹⁾ With active line monitoring connect the manual trigger switch as closer, with inactive line monitoring connect the manual trigger switch as opener.

Status / Error	LED	Alarm output	Locking output KL1: 3-4 / KL3: 1-2
Without voltage	off	AL_NC 10 AL_COM 11 AL_NO 12	0 V
Normal operation	green		24 V
Dust accumulation (warning) The lintel smoke switch should be replaced.	red green		24 V
Dust limit is reached The lintel smoke switch should be replaced.	red green		0 V
Error lintel smoke switch The lintel smoke switch should be replaced.	red off	AL_NC 10 AL_COM 11 AL_NO 12	0 V
Short circuit at locking output Separate ceiling smoke switch from the supply voltage and eliminate the short circuit.	red off		0 V
Supply voltage too low for lintel smoke switch Line breakage of manual release button ²⁾	red off		0 V
Supply voltage too low for ceiling detector ²⁾ Short circuit of ceiling detector ²⁾	red off		0 V
Manual release button actuated Short circuit of manual release button ²⁾	yellow		0 V
Test button actuated	yellow		0 V
Lintel smoke switch alarm Ceiling detector alarm Line break of ceiling detector ²⁾ Ceiling detector removed	red	AL_NC 10 AL_COM 11 AL_NO 12	0 V

²⁾ Display only if line monitoring is active (Jumper J3)