

LCM-320

Loop Controller

PUBLISHED IDENTITY

NOTIFIER LCM-320 is a loop control module that adds a signaling line circuit to compatible ONYX Series fire alarm control panels. Each module also supports one LEM-320 loop expander for a second SLC.

Technical snapshot

Module function	Loop control module
System family	Compatible NOTIFIER ONYX Series FACPs
SLC capacity	One SLC per LCM-320
Expansion	One LEM-320 per LCM-320
Nominal operating voltage	24 V DC
Maximum operating voltage	27.6 V DC
Maximum module current	130 mA
Maximum single-SLC current	400 mA

Verified related ApterPower product pages

Honeywell 10105/2/1

Honeywell FC-USI-0001

Engineering data

Official evidence organized for exact-model review

Module function	Loop control module
System family	Compatible NOTIFIER ONYX Series FACPs
SLC capacity	One SLC per LCM-320
Expansion	One LEM-320 per LCM-320
Nominal operating voltage	24 V DC
Maximum operating voltage	27.6 V DC
Maximum module current	130 mA

Maximum single-SLC current	400 mA
Maximum loop resistance	50 ohms
18 AWG Class B length	3,225 ft (983 m)
12 AWG Class B length	12,500 ft (3,810 m)
Operating temperature	0 to 49 °C
Relative humidity	93 ±2% noncondensing at 32 ±2 °C
Recommended room range	15 to 27 °C

EVIDENCE BOUNDARY

Confirm the LCM-320 marking, panel compatibility, SLC topology, conductor size and approved device schedule before installation.

Applications and system role

Four distinct documented operating contexts

ONYX SERIES SLC

Addressable signaling-line-circuit control in a compatible NOTIFIER ONYX fire alarm control panel.

EXPANDED LOOP CAPACITY

A documented LEM-320 can add a second SLC to each installed LCM-320.

NFS-3030 SYSTEMS

Multi-loop architecture using up to five LCM-320 modules and five associated LEM-320 expanders.

SERVICE REPLACEMENT

Like-for-like restoration where the panel database, loop topology and device schedule are preserved.

Integration control

The LCM-320 operates as a plug-in loop interface with degraded-mode support and a maximum published module current of 130 mA. In NFS-3030 and NFS2-3030 systems, up to five LCM-320 modules and five associated LEM-320 expanders can provide ten SLCs. Field wiring length, conductor size, current and topology must follow the approved fire-alarm design.

Verified related ApterPower product pages

[Honeywell FS-PDC-FTA24P](#)

[Honeywell 51198651-100](#)

Technical questions

Complete model-specific answers from the approved evidence set

What does the NOTIFIER LCM-320 control?

The NOTIFIER LCM-320 controls one addressable signaling line circuit in a compatible ONYX Series fire alarm control panel.

Can one LCM-320 support an additional loop?

One LCM-320 can support one LEM-320 expander, which adds a second signaling line circuit.

How many LCM-320 modules can an NFS2-3030 use?

An NFS2-3030 can use up to five LCM-320 modules together with five associated LEM-320 expanders.

Which operating voltage is specified for LCM-320?

The LCM-320 operates at 24 V DC nominal with a published maximum of 27.6 V DC.

What is the maximum current drawn by the loop controller?

The LCM-320 loop controller draws a maximum of 130 mA, while one SLC has a published maximum current of 400 mA.

How much resistance can the LCM-320 loop tolerate?

The LCM-320 supports a maximum signaling-line-circuit resistance of 50 ohms.

What Class B distance is allowed with 12 AWG wire?

A Class B LCM-320 loop can reach 12,500 ft (3,810 m) when 12 AWG twisted unshielded wire is used under the published conditions.

What must be tested after replacing an LCM-320?

The technician must test every affected loop device, fault indication, expander connection and degraded-mode response after replacing an LCM-320.

Product precautions

Eight aligned controls before return to service

1

Record the complete LCM-320 marking, panel slot and SLC assignment before work.

2

Place the fire alarm system under the approved impairment and safe-work procedure.

3

Back up the panel database and record loop devices, addresses and current loading.

4

Verify conductor size, topology and total loop resistance against the approved design.

5

Remove operating power before installing or removing the plug-in module.

6

Confirm any LEM-320 expansion and interconnection before restoring the panel.

7

Test every affected loop device, fault indication and degraded-mode response.

8

Document acceptance results and restore the fire alarm system to normal service.

Verified related ApterPower product pages

Honeywell FC-QPP-0002

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Honeywell NOTIFIER data sheet DN-6881 for LCM-320 and LEM-320 loop modules.

Verified related ApterPower product pages

Talk to Apter Power

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

