Q: Which gases are detected by the OLCT 10N?

A. The following gases are detected by the OLCT 10N:

Gases	Range
Methane (CH_4)	0-100% LEL
Hydrogene (H_2)	0-100% LEL
Propane (C_3H_8)	0-100% LEL
Butane (C_4H_{10})	0-100% LEL
Oxygen (O_2)	0-30% vol
Carbon monoxide (CO)	0-300 ppm 0-1000 ppm
Hydrogen sulfide (H_2S)	0-30 ppm 0-100 ppm
Nitrogen monoxide (NO)	0-100 ppm 0-300 ppm
Nitrogen dioxide (NO_2)	0-10 ppm 0-30 ppm
Ammonia (NH_3)	0-100 ppm 0-1000 ppm

Q. What is the certification of the OLCT 10N?

A. The OLCT10N is IP65 and ATEX II 3GD since October 2011. It may be used in ATEX 2 (Gas) and 22 (Dust) locations. The OLCT 10N meets the requirements of EN 50270 (electromagnetic compatibility).

Q : Which controllers are compatible with the OLCT 10N?

A: The OLCT 10N was designed to work exclusively with the MX43 or MX 32controller to offer the user maximum functionality.

Q : Can the OLCT 10N be used with a PLC?

A: No. The OLCT 10N uses a proprietary protocol and should be used only with the MX43 or MX32 controllers.

Q : What type of cable should I use?

A: As it is a digital detector, one pair is needed for the power supply and one twisted and shielded pair is required for RS485 communication. The core size of the power cable depends on the number and type of detectors on the line (see the user manual). A 24 AWG cable (0.22 mm2) is appropriate for the RS communication.

Q: How many combustible detectors can i use on one line of the MX43 or MX32?

A: Up to 5 detectors for combustible gases can be connected on one line of 500m, with a 18 AWG cable (0.9 mm2).

Q: How many OLCT 10N detectors can I connect on one line of an MX43?

A: Up to 32 toxic OLCT 10N points can be connected on the same line of an MX43 without adding an external power supply. Please see the following table.

Maximum cable length when using with MX43 controller

Number of detectors on line	Cable core size		
	0.9 mm^2 (AWG 18)	0.5 mm^2 (AWG 20)	0.22 mm^2 (AWG 24)
10			1000 (3200ft)
20		1000m (3200ft)	900m (2950ft)
25		1000m (3200ft)	500m (1600ft)
32	1000m (3200ft)	800m (2625ft)	300m (980ft)

OLCT 10N
FAQ

Q: How many OLCT 10N detectors can I connect on one line of an MX32?

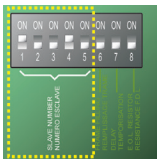
A: The below table shows how many OLCT10N can be attached on a MX 32 (2 lines) and the maximum detection distance depending on what type of cable and power options chosen.

Version	MX 32 230Vac	MX 32 230Vac + Alarm Kit or RS485	MX 32 230Vac + Alarm Kit or RS485	MX 32 24Vdc +RS485 + Alarm Kit
TOTAL output available for the lines	1A (≤ 30°C) 650mA (≥ 40°C)	1A (≤ 30°C) 600mA (≥ 40°C)	1A (≤ 30°C) 550mA (≥ 40°C)	3A
OLCT 10N Tox	8 (≥1000m in 0,22mm²)			
OLCT 10N CO_2	8 (150m en 0,22mm², 400m in 0,5mm²)			
OLCT 10N LIE (100mA)	8 (150m in 0,5mm²) 6 (200m in 0,5mm²)		8 (150m in 0,5mm²) 5 (250m in 0,5mm²)	8 (150m in 0,5mm²)

Q: Can we mix OLCT 10N CO and OLCT 10N methane on the same line of an MX43?

A: Yes. As it is a digital line, you can attach up to 32 detectors on the same line of a MX 43 and up to 8 when attached to a MX 32. Relay, analog input, logic input and analog output modules can all be connected on the same line as the OLCT 10N since they are all digital signals. Additional power supplies may be required depending on the configuration of the line.

Q: How is the address of the OLCT 10N programmed?



A: Addresses are configured via dip switch on each detector.

Q: What should I do if one detector is the last module of the line?

A. The last switch (EOL resistance for End of Line resistance) has to be set to "ON" when the detector is the last on the line.

Q: Does the OLCT 10N deliver an analog output?

A: No. The OLCT 10N is a digital transmitter.

Q: Should I calibrate once a sensor or a detector has been replaced?

A: After each sensor or detector replacement, you must initiate a manual and then automatic calibration.

Q: When the OLCT 10N is connected to the MX43 or MX32, can we calibrate several detectors at the same time?

A: Yes. When the OLCT 10N is connected to the MX43 or MX32, you can calibrate up to 32 detectors at once.

Q: What is needed to calibrate the OLCT 10N transmitter?

A: A calibration cap and magnet allow one-man, non-intrusive calibration. Simply place the magnet on the detector and a bicolour LED tracks the calibration process.

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