

PRELIMINARY



**FORTEC**  
GROUP

**BLO-Line®**

Blaze load optimized 4K monitors 54.6 inch IoT — according to class A1

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One partner, unlimited technology solutions

# Product Features

Designed,  
developed and  
made in Germany

**BLO-Line® 4K 54.6**

Protection against fire hazard and the assessment of fire behaviour of building materials is a basic presumption when planning and constructing buildings. Public areas, which are also marked emergency exit routes within buildings must be accessible in case of fire. Flammable materials with high risk of smoke gas development must not be used or installed in those areas.

Fire safety regulations avoid the installation of devices which are supposed to increase fire load and to promote development of smoke gas. FORTEC Integrated designed and developed a monitor series optimized in the contribution to fire and smoke gas emission for usage in public areas and buildings.

## BLO-Line® 4K monitors: Safety first

The European Standard EN13501-1 enables the classification of building materials and components in terms of fire behavior and fire resistance. Additional criteria take a product's tendency to produce smoke and flaming droplets or particles into consideration. Since there is no such classification procedure for electronic devices, monitors are tested in compliance with the SBI method according to EN 13823:2015-02 standard, which specifies a method of test in order to determine the behaviour of fire performance of construction products when exposed to thermal attack by a single burning item (SBI).

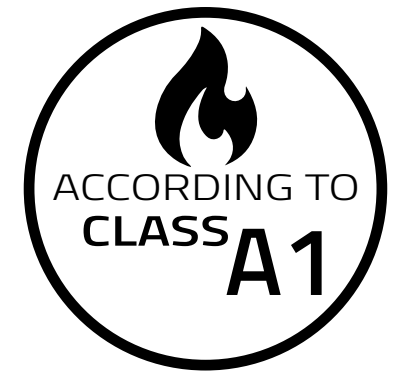
The required fire test was conducted in accordance with the above mentioned standards on the premises of the Leipzig Institute for Materials Research and Testing, a recognised, notified and accredited testing, inspection and certification body in Germany. The results have been verified and certified by an independent expert. The results of the fire tests allow FORTEC Integrated to offer fire load optimized monitors in accordance with the classifications A1 (non-combustible materials - no contribution to fire).

The BLO-Line® 4K will be certified and classified according to fire protection class A1. This means that it complies with the relevant fire protection regulations. The BLO-Line® 4K therefore also fully comply with the requirements of the VdS 6024 leaflet on fire protection for electrical devices in sensitive areas.

BLO-Line® 4K monitors can also be equipped with an optional extinguishing device or even be designed for a higher IP protection class. This makes our BLO-Line® 4K monitors ideally suited for installation as information systems in public buildings, such as hospitals, universities, schools, airports and other public areas in buildings.

They are available as normal monitors, as an IOT system or as a stand-alone system with an integrated PC. This eliminates the need for additional fireproof enclosures, which are both heavy and more expensive. Therefore, our BLO-Line® 4K monitors are cost-effective and allow for easy installation and handling.

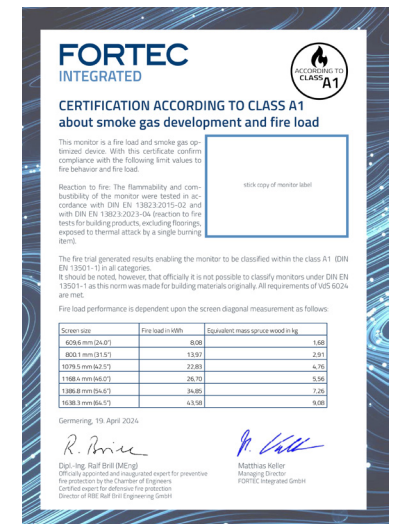
## Fire protection according to class A1



BLO-Line® - PRODUCT OF THE YEAR 2024 | Feuertrutz-Award in the category structural fire protection



FORTEC Integrated is supporting member of Bundes-verband Brandschutz-Fachbetriebe e.V. Please also visit our website: [www.brandschutzmonitore.de](http://www.brandschutzmonitore.de)



# Panel and housing

	Measure	Description
Panel Diagonal & Pixel class	[mm] / [Inch]	1387/ 54.6   ISO 9241-307 (pixel error class II)
Type		BLO-Line monitor with glass or touch and bezel
Resolution	[Pixel]	3.840 x 2.160 (4K)
Luminance (center)	[cd/m <sup>2</sup> ]	560
Viewing angle (U/ D/ L/ R)	[°]	89/ 89/ 89/ 89
Active area (H/V)	[mm]	1208 x 678
Backlight & Number of colors	...   [M]	LED   1070
Contrast ratio   Response time (on/off)	...   [ms]	4000:1   8.5
Life time back light until reaching half brightness	[h]	50.000
Continuous operating time	[h] / [d]	24/ 7
Mounting	[mm]	Wall mount included
Storage temperature	[°C] / [°F]	-20 ~ 60 / -4 ~ 140
Operating temperature	[°C] / [°F]	0 ~ 40/ 32 ~ 104
Storage & Operation humidity	[%]	10 ~ 80 (non condensing)   30 ~ 80 (non condensing)
Panel orientation		Versions in Landscape and Portrait
Location of connectors and OSD buttons		Connector: Front View right (Landscape), Front View top (Portrait) OSD: Front View left (Landscape), Front View bottom (Portrait)
Housing		Powdered steel sheet, black RAL 9005
Glass		Fire protection glass, 7 mm
Power supply	[V]	AC 110-240/ 50-60 Hz
Weight	[kg]	55.0
Dimension (W x H x D)	[mm]	1267 x 738 x 78
Conformity		CE, FCC Class A, EU-RoHS, A1 according to EN13501-1
Packaging		Single packaging for cargo pallet (max. 3 packages p.p.)
Package Contents		Safety instructions, power cable DB-07-607, BLO-Line® certificate, mounting instruction, energy classification label

## BLO-Line® 4K 54.6



BLO-Line® 4K 54.6 monitor

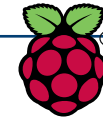


BLO-Line® 4K 54.6 monitor with touch screen

All figures are typical values. The real values of the panel may vary. The optical characteristics are determined after the panel has been „ON“ for approximately 30 minutes at an ambient temperature of 25° C (77° F).

Life time of the backlight is defined as the time to take until the brightness reduces to 50% of its original value.

# IOT - Raspberry® IoT Controller



Order number Landscape		MO-41-008
Order number Portrait		MO-41-043
Interfaces		2x USB-A; 2x USB-C; 1x Audio 3,5mm; Micro-HDMI (4k, 60Hz); LAN RJ45
Raspberry® PI		CM3+, CM 4, 32 GB
Power consumption (typ.)	[Watt]	130

## BLO-Line® 4K 54.6



BLO-Line® 4K 54.6 monitor backside incl. wall mount (darker coloured for demonstration)

## Options

Order number Landscape	MO-41-009	Touch monitor with Prisma 4K
Order number Portrait	MO-41-044	Touch monitor with Prisma 4K
Touch technology		PCAP touch, 10 touch points, projected capacitive
Glass		Fire protection glass 6.5 mm
Can be combined with		—

## Touch integrated

Product	Order no.	Product description
Extinguishing cartridge	DS-92-079	Higher safety in cases of fire for all versions of BLO-Line®
Bezel with cable feedthrough	MO-41-023	Front bezel with outlet for cable feed BLO-Line® 4K 54.6, to cover the cable connections

## Additional

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