

# DATASHEET



 **DISTEC**  
A FORTEC GROUP MEMBER

## BLO 31.5" - 54.6"

**FIRE LOAD AND  
SMOKE OPTIMIZED**



# Safety through Fire Prevention

The Distec GmbH has been developing and manufacturing industrial monitors and display solutions for more than twenty years. Based on the POS-Line series, the Distec has developed a series of monitors which has been specifically optimized for fire behavior and flue gas development. All plastic parts, adhesive tapes and other combustible parts have been eliminated as far as possible. The housing has been completely made of metal.

In the absence of a classification system for electronic devices, the monitors were tested according to DIN EN 13501-1 using the SBI method according to EN 13823: 2015-02. The necessary fire test was carried out at the MFPA-Leipzig/Germany, which is a test body for material research and inspection authority for construction engineering industry. Tested results in accordance with the above mentioned standards were confirmed by an independent expert. The fire test has shown that the measured values are clearly below the class B-s1,d0, which makes the classification of the monitor in (B) which means hardly inflammable, and (s1) which means no or hardly flue gas development and (d0) no draining.



**Note:**

Electrical appliances cannot strictly be classified according to the standard DIN EN 13501-1 for building materials. Since an appropriate standard for electrical appliances is not available, was carried out the flammability test following DIN EN 13501-1 as a basis for comparison with building products.

- DISPLAYS FOR ESCAPE ROUTES ACCORDING B-s1,d0
- NO/ BARELY SMOKE GAS DEVELOPMENT
- NO BURNING DROPLETS
- INTEGRATED THERMAL SECURITY
- HALOGEN FREE POWER SUPPLY CABLE
- FIRE LOAD CERTIFICATE
- INTEGRATED PC
- FIRE PROTECTION GLASS
- HARDLY FLAMMABLE
- ROBUST METAL CHASSIS, VESA



## Certificate of registration of utility model

No.20 2017 002 566

Name: Fire load and smoke gas optimized monitor

IPC: G09F 9/30

Owner: Distec GmbH, Sales of electronic components, 82110 Germering, Germany

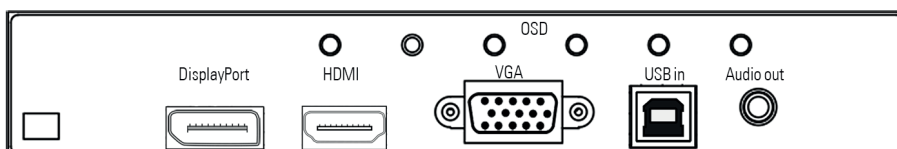
Date of entry: 01.08.2017



# VGA, HDMI, DisplayPort

POS-Line 31.5" - 54.6" BLO

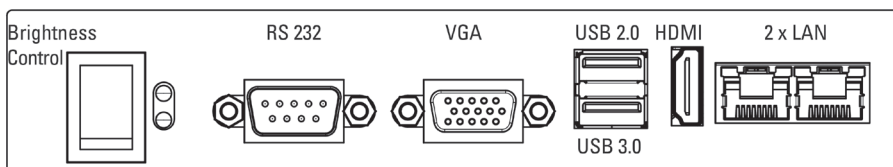
Order number		DS-91-727	DS-91-729	DS-91-731	DS-91-733
Size	[mm]/[inch]	800.1/ 31.5"	1066.8/ 42.0"	1168.4/ 46.0"	1386.8/ 54.6"
Type		Smoke gas and fire load optimized displays with certificate. Classified according to DIN EN13501-1 as B-s1,d0			
Resolution	[Pixel]	1920 x 1080 (FHD)			
Brightness	[cd/m²]	500	700		
Viewing angle	[°]	165 h/ 165 v			
Active Area	[mm]	698.40 x 392.85	930.24 x 523.26	1018.08 x 572.67	1209.60 x 680.40
Backlight		LED			
Colours	[M]	16.7			
Contrast		3000:1	4000:1		
Response time (on/off)	[ms]	8		6.5	
Pixel class		ISO 9241 - 307 (pixel error class II)			
Lifetime backlight	[h]	50.000			
Interfaces		1 x VGA, 1 x HDMI 1.3a, 1 x DP 1.1a, 1 x Remote OSD, 1 x OSD 4 Key			
HDCP support		Yes			
Continuous operating time		20/ 7			
VESA	[mm]	MIS-F 400 x 400 (M6)			
Ambient temperature operation	[°C]/ [°F]	0 ~ 40/ 32 ~ 104			
Operation humidity	[%]	10 ~ 90 (non condensing)			
Ambient temperature storage	[°C]/ [°F]	-20 ~ 60/ -4 ~ 140			
Orientation		Portrait and landscape			
Location of connectors		Landscape: backside down/ Portrait: backside left			
Location of OSD button		Landscape: backside down/ Portrait: backside left			
Chassis		Sheet steel, powder coated, RAL 9005 (black), fine texture, matte finish, including connection cover			
Front bezel		Sheet steel, powder coated, RAL 9005 (black), fine texture, matte finish			
Glass		Fire protection glass, 7mm			
Power supply	[V]	AC 100 - 240V/ 50-60 Hz			
Power consumption (typ.)	[Watt]	44	97	67	97
Weight	[kg]/ [lb]	20.3/ 44.75	29.3/ 64.60	36.8/ 81.13	49.0/ 108.0
Dimensions (W x H x D)	[mm/ inch]	762 x 456 x 117.5 30.00 x 17.95 x 4.63	994 x 587 x 117.3 39.13 x 23.11 x 4.63	1081 x 636 x 117.5 42.56 x 25.04 x 4.63	1273 x 744 x 117.5 50.12 x 29.29 x 4.63
Conformity		CE, EU-RoHS, B-S1, d0 nach EN13501-1			



# PC Intel® Atom

## POS-Line 31.5" - 54.6" BLO

Order number		DS-91-965	DS-91-966	DS-91-967	DS-91-968
Size	[mm]/[inch]	800.1/ 31.5"	1066.8/ 42.0"	1168.4/ 46.0"	1386.8/ 54.6"
Type		Smoke gas and fire load optimized displays with certificate. Classified according to DIN EN13501-1 as B-s1,d0			
Resolution	[Pixel]	1920 x 1080 (FHD)			
Brightness	[cd/m²]	500	700		
Viewing angle	[°]	165 h/ 165 v			
Active Area	[mm]	698.40 x 392.85	930.24 x 523.26	1018.08 x 572.67	1209.60 x 680.40
Backlight		LED			
Colours	[M]	16.7			
Contrast		3000:1	4000:1		
Response time (on/off)	[ms]	8		6.5	
Pixel class		ISO 9241 - 307 (pixel error class II)			
Lifetime backlight	[h]	50.000			
PC		CPU: Intel® Atom E3845 (1.9 GHz), Graphic: Intel® Valleyview SoC integrated Graphics RAM: 4 GB DDR3L, Storage: min. 120 GB mSATA			
Interfaces		2 x LAN 100/1000, 1 x USB 3.0, 1 x USB 2.0, 1 x HDMI, 1 x VGA, 1 x RS232			
HDCP support		—			
Continuous operating time		20/ 7			
VESA	[mm]	MIS-F 400 x 400 (M6)			
Ambient temperature operation	[°C]/ [°F]	0 ~ 40/ 32 ~ 104			
Operation humidity	[%]	10 ~ 90 (non condensing)			
Ambient temperature storage	[°C]/ [°F]	-20 ~ 60/ -4 ~ 140			
Orientation		Portrait and landscape			
Location of connectors		Landscape: backside down/ Portrait: backside left			
Chassis		Sheet steel, powder coated, RAL 9005 (black), fine texture, matte finish, including connection cover			
Front bezel		Sheet steel, powder coated, RAL 9005 (black), fine texture, matte finish			
Glass		Fire protection glass, 7mm			
Power supply	[V]	AC 100 - 240V/ 50-60 Hz			
Power consumption (typ.)	[Watt]	55	101	72	99
Weight	[kg]/ [lb]	20.6/ 45.42	29.6/ 65.26	37.1/ 81.79	49.3/ 108.69
Dimensions (W x H x D)	[mm/ inch]	762 x 456 x 117.5 30.00 x 17.95 x 4.63	994 x 587 x 117.5 39.13 x 23.11 x 4.63	1081 x 636 x 117.5 42.56 x 25.04 x 4.63	1273 x 744 x 117.5 50.12 x 29.29 x 4.63
Conformity		CE, EU-RoHS, B-S1, d0 according to EN13501-1			



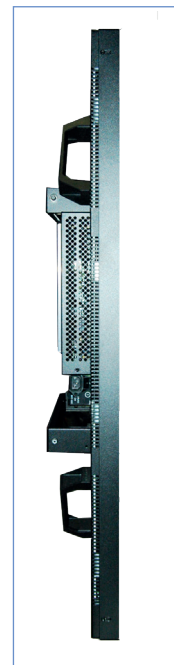
## Mounts and Covers

Product	Order no.	Product description
Wall mount	DS-91-540	Inclinable wall mount for all displays from 31.5" up to 54.6"

## Operating systems, Software

Product	Order no.	Product description
Windows 7 embedded 32 bit DE	DS-60-645	Operation system only for Atom
Windows 7 embedded 32 bit EN	DS-60-650	Operation system only for Atom
Windows 7 FES 64 bit DE	DS-60-725	Operation system only for Atom
Windows 7 FES 64 bit EN	DS-60-781	Operation system only for Atom
Windows 10 Pro. 64 bit DE	DS-60-811	Operation system
Windows 10 Pro. 64 bit EN	DS-60-810	Operation system
Windows 10 IOT ATOM DE/ EN	DS-60-864	Operation system
WEBPOSTER	DS-60-787	WEBPOSTER embedded Linux

## Accessories



# FORTEC DISTEC

**ELEKTRONIK AG** A **FORTEC** GROUP MEMBER



## Contact

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, Great Britain and the USA. For more information please contact:

### GERMANY

**Distec GmbH**  
Augsburger Str. 2b  
82110 Germering  
GERMANY

Phone +49 89 89 43 63-0  
Fax +49 89 89 43 63-131  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

**FORTEC Elektronik AG**  
Lechwiesenstraße 9  
86899 Landsberg am Lech  
GERMANY

Phone +49 81 91 9 11 72-0  
Fax +49 81 91 2 17 70  
E-Mail: [sales@fortecag.de](mailto:sales@fortecag.de)  
Internet: [www.fortecag.de](http://www.fortecag.de)

Designed,  
developed and  
made in Germany

### AUSTRIA

**FORTEC Elektronik AG**  
Office Vienna  
Nuschlinggasse 12  
1230 Wien  
AUSTRIA

Phone +43 1 8 67 34 92-0  
Fax +43 1 8 67 34 92-26  
E-Mail: [office@fortec.at](mailto:office@fortec.at)

### SWITZERLAND

**ALTRAC AG**  
Bahnhofstraße 3  
5436 Würenlos  
SWITZERLAND

Phone +41 44 7 44 61 11  
Fax +41 44 7 44 61 61  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### UNITED KINGDOM

**Display Technology Ltd.**  
5 The Oaks Business Village  
Revenge Road, Lordwood  
Chatham, Kent, ME5 8LF  
United Kingdom

Phone +44 16 34 67 27 55  
Fax +44 16 34 67 27 54  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

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).

### USA

**Apollo**  
**Display Technologies, Corp.**  
87 Raynor Avenue, Unit 1  
Ronkonkoma  
NY 11779  
United States of America

Phone +1 6 31 5 80 43 60  
Fax +1 6 31 5 80 43 70  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)

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

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