ctrlX AUTOMATION

INTUITIVE MACHINE OPERATION

Machine operation and thus the human machine interface are among the most important elements in industrial automation. Bosch Rexroth therefore offers simple and intuitive solutions with ctrlX HMI.
ctrlX HMI is part of the ctrlX AUTOMATION family. With tailored hardware and software, it allows cutting-edge HMI solutions. The broad hardware portfolio includes displays, panel PCs offering excellent graphics capabilities, web panels and panel frames in a wide range of sizes.

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You can find more information at: www.ctrlx-automation.com/ctrlx-hmi

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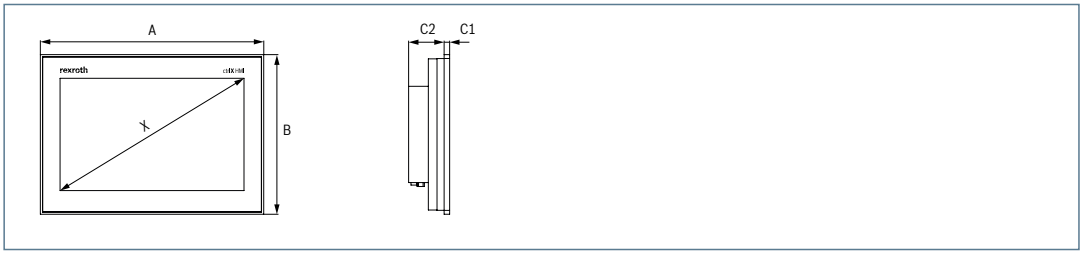
Web Panel – WR21



Dimensions	Unit	WR2107	WR2110	WR2115
A	mm	205.0	283.1	419.7
B	mm	146.9	202.3	269.0
C	mm	52.0	52.0	52.0
Mass	kg	1.2	2.2	4.2

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Technical data	
Performance data	**WR21**
CPU	ARM i.MX8M Mini Quad Core; 1.6 GHz
RAM	2 GB
Memory	16 GB; eMMC
Web browser	Chromium
Display	**WR21**
Screen size	7” (1024 x 600; WSVGA) 10” (1280 x 800; WXGA) 15.5” (1366 x 768; HD)
Orientation	Horizontal
Operation	Capacitive 10 point multi-touchscreen/EDT
Interfaces	**WR21**
Ethernet	2x 10/100/1000 MBit/s Ethernet (RJ45)
Serial	1x RS232/422/485, 1x RS485
USB	2x USB-A (2.0), 1x Micro USB (2.0/internal)
SD card	1x Micro-SD (internal)
Electrical data	**WR21**
Input voltage	24 V DC, ±20 %
General data	**WR21**
Mounting	Panel mounting, VESA mounting
Degree of protection	IP66 (front), IP20 (rear)
Norms and Standards	**WR21**
Standards	CE, UL, cUL, FCC, CCC
Certification	Industrial area class A

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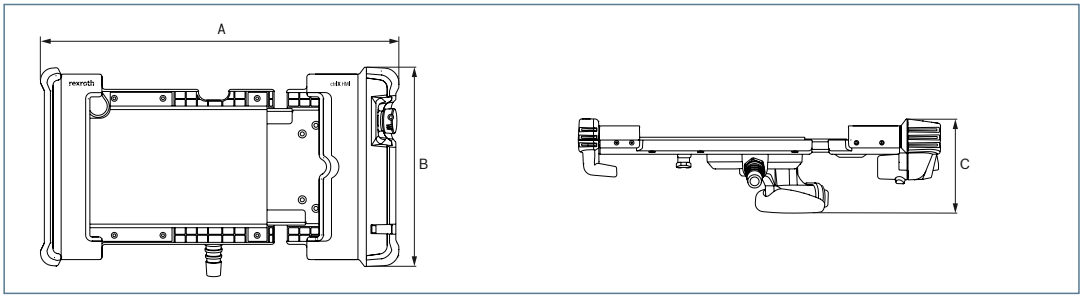
Panel Frame – PF10



Dimensions	Unit	PF10
A	mm	350 - 395
B	mm	190
C	mm	90
Mass (without cable)	kg	1

Technical data	
Display	**PF10**
Suitable tablet size	10" tablets
Interfaces	**PF10**
USB	USB-C connector (charging function only)
Safety elements	**PF10**
Emergency stop	Emergency stop key (2-circuit)
Accept key	3-stage accept key (2-circuit)
Safety category	SIL3 conformity for emergency stop key and accept key
Electrical data	**PF10**
Input voltage	5.5 VDC (5m) 5.5 V DC (10 m); 6 V DC (for iPAD 8th generation)
Cable length	5 m 10 m
Norms and Standards	**PF10**
Standards	CE, UL
Certification	Industrial area class A

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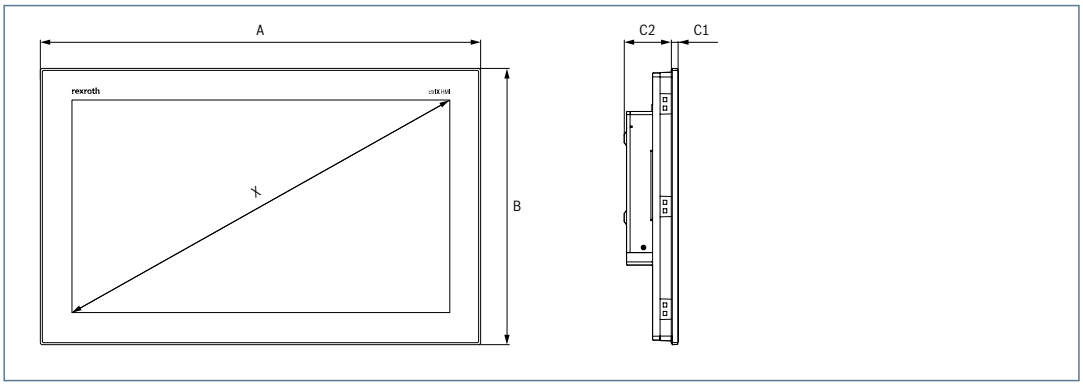
Display – DR



Dimensions	Unit	DR0012	DR0015	DR0018	DR0021
A	mm	329	420	488	558
B	mm	231	269	309	350
C1 (Panel mounting)	mm	7	7	7	7
C2 (Panel mounting)	mm	58	58	58	58
C (Vesa mounting)	m	–	–	–	–
C (Tube mounting)	m	–	–	–	–
X	mm/"	307/12.1	396/15.6	470/18.5	546/21.5
Mass	kg	4.4	6.0	7.5	8.4

Technical data

Display	**DR**
Type of device	Built-in device
Screen size	307 mm/12.1” (1280 x 800) 470 mm/18.5” (1366 x 768) 396 mm/15.6” (1366 x 768) 546 mm/21.5” (1920 x 1080)
Orientation	Horizontal, Vertical (21.5” variant)
Operation	Capacitive 10 point multi-touchscreen/EDT
Interfaces	**DR**
Video	1 x CDI+ (1x RJ45) 1 x DisplayPort
USB	2x USB-A (2.0) at the connector panel
Safety and operation elements	**DR**
Emergency stop	–
Button	–
Electrical data	**DR**
Input voltage	24 V DC (-20/+25 %)
General data	**DR**
Mounting	Panel mounting
Degree of protection	IP66 (front), IP20 (rear)
Norms and Standards	**DR**
Standards	CE, FCC, UL, CSA
Certification	Industrial area class A

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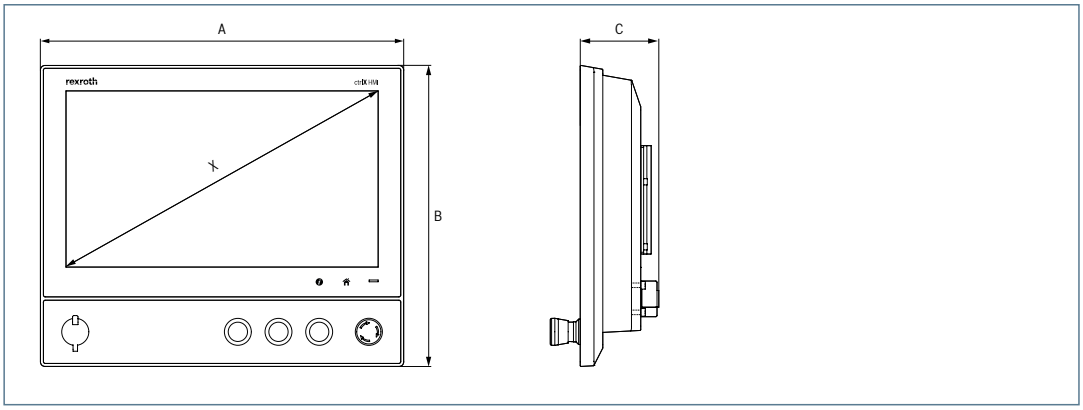
Display – DE



Dimensions	Unit	DE0015	DE0021
A	mm	402	546.8
B	mm	333	420
C1 (Panel mounting)	mm	–	–
C2 (Panel mounting)	mm	–	–
C (Vesa mounting)	m	87	87
C (Tube mounting)	m	160	160
X	mm/"	396/15.6	546/21.5
Mass	kg	6.8	9.6

Technical data	
Display	**DE**
Type of device	Housed device
Screen size	396 mm/15.6” (1366 x 768) 546 mm/21.5” (1920 x 1080)
Orientation	Horizontal
Operation	Capacitive 10 point multi-touchscreen/EDT
Interfaces	**DE**
Video	HDMI connector Type A, 1x CDI+ (1x RJ45), 1x DisplayPort
USB	2x USB-A (2.0) at the connector panel, 1x USB-A (2.0) at the front 1x USB-B (2.0) at the connector panel
Safety and operation elements	**DE**
Emergency stop	1x Emergency stop key (2-circuit)
Button	3x Pushbuttons
Electrical data	**DE**
Input voltage	24 V DC (-20/+25 %)
General data	**DE**
Mounting	VESA mounting, tube mounting
Degree of protection	IP65
Norms and Standards	**DE**
Standards	CE, FCC, UL, CSA
Certification	Industrial area class A

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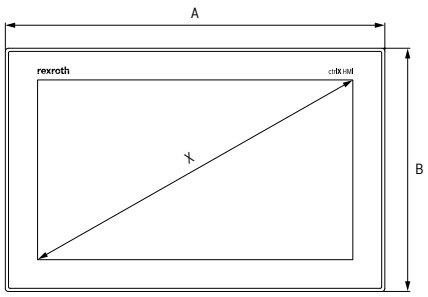
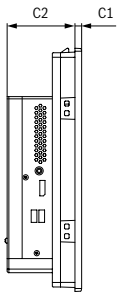
Panel PC – VR





Dimensions	**Unit**	**VR3110**	**VR3115**	**VR3121**	**VR4x15**	**VR4x21**
A	mm	238	420	558	420	558
B	mm	202	269	350	269	350
C1 (Panel mounting)	mm	7	7	7	7	–
C2 (Panel mounting)	mm	75	75	75	108	108
X	mm/"	257/10.1	396/15.6	546/21.5	396/15.6	546/21.5
Mass	kg	4.1	7.0	9.4	8.7	11.1

Technical data

Performance data	**VR31**	**VR4x**
CPU	Intel Atom x5-E3940; 1.6 GHz	Intel Core i3-6100U; 2.3 GHz Intel Core i5-6300U; 2.4 GHz Intel Core i7-6600U; 2.6 GHz
RAM	4 GB, 8 GB (Option)	8 GB, 16 GB (Option)
SSD memory	32 GB, 256 GB	32 GB, 256 GB, 2x 320 GB (RAID 1)
HDD memory	320 GB	320 GB, 2x 256 GB (RAID 1)
Operating system	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Display	**VR31**	**VR4x**
Screen size	257 mm/10” (1280 x 800) 396 mm/15.6” (1366 x 768) 546 mm/21.5” (1920 x 1080)	396 mm/15.6” (1366 x 768) 546 mm/21.5” (1920 x 1080)
Orientation	Horizontal	Horizontal
Operation	Capacitive 10 point multi-touch-screen/EDT	Capacitive 10 point multi-touchscreen/EDT
Plug-in slots	**VR31**	**VR4x**
PCI/PCIe slots	–	1x half size PCIe
Mini PCIe slots	1x full size Mini PCIe	2x full size Mini PCIe
Flash memory (Option)	M.2-Flash + CFast slot	M.2-Flash + CFast slot
Interfaces	**VR31**	**VR4x**
Ethernet	2x Gbit (Intel i210)	2x Gbit (Intel i210), 1x Gbit (Intel i219)
Serial	1x RS232, 1x RS232/422/485	1x RS232, 1x RS232/422/485
USB	2x USB-A (2.0), 2x USB-A (3.0)	2x USB-A (2.0), 2x USB-A (3.0)
Video	DisplayPort	DisplayPort
Audio	Line out	Line out

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Panel PC – VR

Technical data		
Electrical data	**VR31**	**VR4x**
Input voltage	24 V DC (-20/+25 %)	24 V DC (-20/+25 %)
General data	**VR31**	**VR4x**
Mounting	Panel mounting	Panel mounting
Degree of protection	IP66 (front), IP20 (rear)	IP66 (front), IP20 (rear)
Norms and Standards	**VR31**	**VR4x**
Standards	CE, FCC, UL, CSA	CE, FCC, UL, CSA
Certification	Industrial area class A	Industrial area class A

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