



safety camera systems  
V200 Work Station Extended

V20W-0101000



**Model Name** > [V20W-0101000](#)  
**Part No.** > [1042027](#)



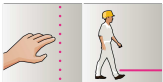
**At a glance**

- Type 2 (IEC 61496), SIL1 (IEC 61508), PL c (EN ISO 13849)
- Protective field size from 0.4 m x 0.4 m to 1.5 m x 1.5 m
- Resolution 20 mm, 24 mm, and 30 mm
- One device only: integrated sender and receiver
- Intuitive one-button operation
- Automatic alignment
- Synchronization of 2 systems
- Restart/Reset, EDM integrated

**Your benefits**

- Individual definition of protective fields allows high flexibility for machine design
- Quick commissioning without additional software
- Intuitive, time-saving operation
- No variants: one-device concept for all aperture sizes
- Reduced storage, logistics and commissioning costs
- No expert knowledge required
- High machine availability and simple maintenance

**Note: A resolution set has to be ordered separately. See "Accessories" for further details.**



**Safety-related parameters**

Type:	Type 2 (IEC 61496)
Safety integrity level:	SIL1 (IEC 61508) SILCL1 (EN 62061)
Category:	category 2 (EN ISO 13849)
Test rate (internal test):	50 /s (EN ISO 13849)
Maximum demand rate:	30 /min (EN ISO 13849) <sup>1)</sup>
Performance level:	PL c (EN ISO 13849)
PFHd:	3.2 * 1E-09 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Safe state in the event of a fault:	At least one OSSD is in the OFF state.

1) Between two demands on a safety-related response of the device, at least 100 internal or external tests must be carried out.

## Functions

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Restart interlock:	✓
Restart interlock (delivery status):	Deactivated
External device monitoring (EDM):	✓
External device monitoring (delivery status):	Deactivated
Cascaded:	✓
Teach/sync:	✓

## Features

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Resolution:	20 mm, 24 mm, 30 mm <sup>1)</sup>
Protective field range:	1.41 m (20 mm resolution) 1.7 m (24 mm resolution) 2.12 m (30 mm resolution)
Optical field of view size:	1 m x 1 m 1.2 m x 1.2 m <sup>2)</sup> 1.5 m x 1.5 m
Aspect ratio protective field:	1:1 to 2:1
Response time:	20 ms

1) <sup>2)</sup> Depending on resolution set

## Mechanical data

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Dimensions (W x H x D):	93.9 mm x 50 mm x 93.9 mm
Housing material:	Die-cast aluminum
Weight:	355 g

## Electrical data

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Protection class:	III (EN 50178)
Supply voltage:	24 V DC (19.2 V DC ... 28.8 V DC)
Power consumption:	≤ 165 mA <sup>1)</sup> <sup>2)</sup> ≤ 690 mA
Type of output:	2 PNP semiconductors, short-circuit protected, cross-circuit monitored
Switching voltage HIGH:	VS - 2.7 V DC ... VS
Switching voltage LOW:	3.5 V DC
Switching current:	6 mA ... 250 mA

1) At 24 V DC without output load    2) Including maximum output load

## Interfaces

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Connection type:	Male connector M12, 8-pin
Status display:	LEDs
Diagnostic display:	LEDs

## Ambient data

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Enclosure rating:	IP 54 (EN 60529)
Ambient operating temperature:	0 °C ... +50 °C
Storage temperature:	-25 °C ... +70 °C
Air humidity:	15 % ... 95 %, non-condensing
Vibration resistance:	5 g, 10 Hz ... 55 Hz (EN 60068-2-6)
Shock resistance:	10 g, 16 ms (EN 60068-2-27)



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