



safety camera systems
V300 Work Station Extended

V30W-0101000



Model Name > [V30W-0101000](#)
Part No. > [1041542](#)



At a glance

- Type 3 (IEC 61496), SIL2 (IEC 61508), PL d (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 for commissioning 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 3 (IEC 61496)
Safety integrity level:	SIL2 (IEC 61508) SILCL2 (EN 62061)
Category:	Category 3 (EN ISO 13849)
Performance level:	PL d (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.

Functions

Restart interlock:	✓
Restart interlock (delivery status):	Deactivated

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

Features

Resolution:	20 mm, 24 mm, 30 mm ¹⁾
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 ²⁾ 1.5 m x 1.5 m
Aspect ratio protective field:	1:1 to 2:1
Response time:	20 ms

^{1) 2)} Depending on resolution set

Mechanical data

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

Protection class:	III (EN 50178)
Supply voltage:	24 V DC (19.2 V DC ... 28.8 V DC)
Power consumption::	≤ 165 mA ^{1) 2)} ≤ 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

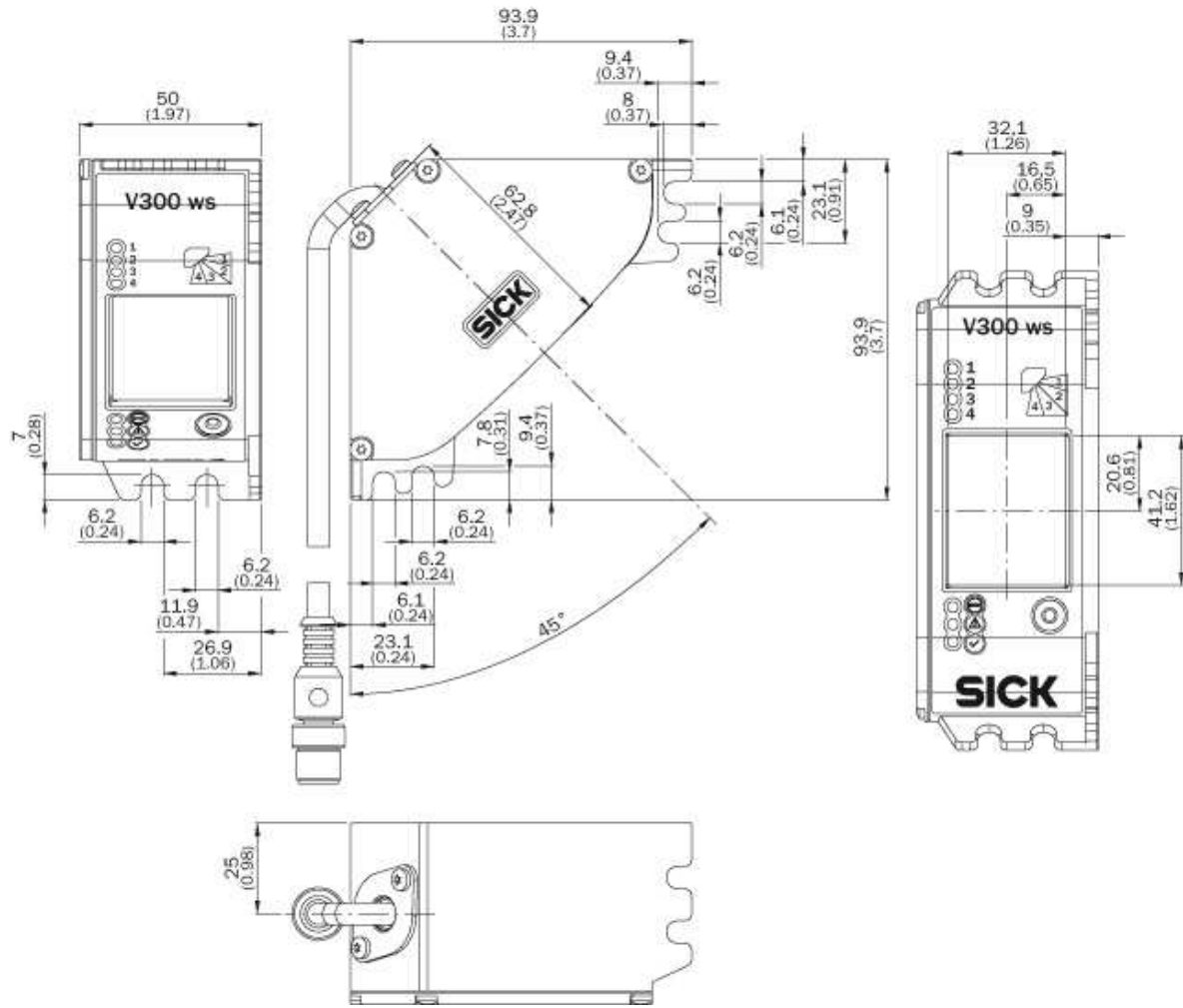
Interfaces

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

Ambient data

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)

Dimensional drawing



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