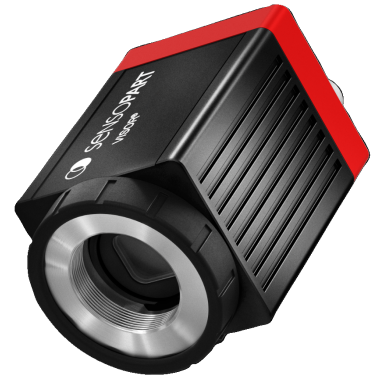


# V20-ALL-P4-C-3

## Ordering information

|                                 |                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------|
| <b>Designation for ordering</b> | V20-ALL-P4-C-3                                                                    |
| <b>Part number</b>              | 637-91099                                                                         |
| <b>Order text</b>               | VISOR® XE V20 Allround Professional, C-Mount, LAN interface                       |
| <b>Components supplied</b>      | VISOR® XE vision sensor, Operating manual, Mounting bracket (MK 45) and Allen key |



| Optical data                           |                                                      |
|----------------------------------------|------------------------------------------------------|
| <b>Image chip type</b>                 | Monochrome                                           |
| <b>Resolution</b>                      | SPXGA                                                |
| <b>Number of pixels (H x V) [px]</b>   | 1600 x 1200                                          |
| <b>Imaging chip technology</b>         | CMOS                                                 |
| <b>Sensor size ["]</b>                 | 1/2.9                                                |
| <b>Pixel size [μm]</b>                 | 3.00                                                 |
| <b>Field of view type</b>              | C-Mount (field-of-view data depend on the lens used) |
| <b>Min. field of view (X x Y) [mm]</b> | Abhängig vom gewählten Objektiv                      |
| <b>Focus drive</b>                     | Dependent on the objective lens selected             |

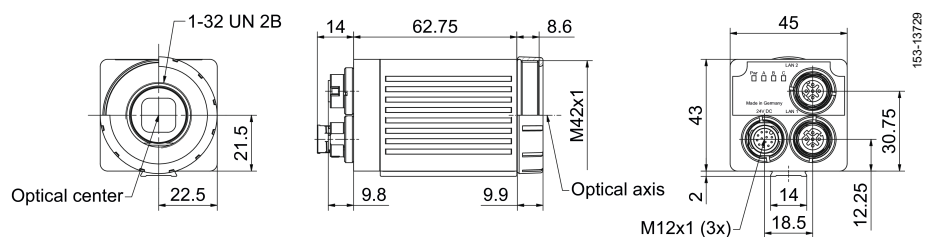
| Functions                       |                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hardware</b>                 | VISOR® XE                                                                                                                                                                                                                                                                                   |
| <b>Max. number of jobs</b>      | 255                                                                                                                                                                                                                                                                                         |
| <b>Max. number of detectors</b> | 255                                                                                                                                                                                                                                                                                         |
| <b>Alignment</b>                | Contour comparison, Pattern matching, Edge detection                                                                                                                                                                                                                                        |
| <b>Available detectors</b>      | Pattern matching, Contour, Contour (3D), Contour check, BLOB, Target mark (3D), Data code, Barcode, OCR, Brightness, Contrast, Gray level, Caliper, Classification (AI)                                                                                                                     |
| <b>Result processing</b>        | Text, Numbers, Robotics                                                                                                                                                                                                                                                                     |
| <b>Pre-processing</b>           | Arrangement, Filter                                                                                                                                                                                                                                                                         |
| <b>Calibration</b>              | Board (measurement), Board (robotics), Hand-Eye (robotics), Base-Eye (robotics), Scaling (measurement), Point pair list (robotics)                                                                                                                                                          |
| <b>Robotic functions</b>        | Gripper clearance check, Result offset, image coordinates, Result offset 2D, Result offset 3D                                                                                                                                                                                               |
| <b>Additional functions</b>     | Archiving, Image transmission, individual overlays, Multiple image acquisition, Multishot, Color channel, color distance and binarization, Multiple detection for contour and pattern matching detector, Multiple detection for detector contour (3D), Job checksum, Conditional executions |

| Electrical data                     |                                                               |
|-------------------------------------|---------------------------------------------------------------|
| Operating voltage $U_B$ [V DC]      | 18 ... 30                                                     |
| Typical current draw [mA]           | 350                                                           |
| Type of voltage source              | The device must be supplied by a "Class 2" power supply unit. |
| Readiness delay [ms]                | $\leq 16,000$                                                 |
| Reverse polarity protection         | Yes                                                           |
| Overvoltage protection              | No                                                            |
| Residual ripple [%]                 | $\leq 5$ Vss, level 3                                         |
| Explanation of residual ripple      | EN 61000-4-17                                                 |
| Polarity                            | PNP/NPN                                                       |
| Short circuit protection            | Yes                                                           |
| Input threshold (High)              | $> U_B - 1V$                                                  |
| Input threshold (Low)               | $< 3V$                                                        |
| Input resistance [ $k\Omega$ ]      | $> 20$                                                        |
| Max. output current [mA]            | 50                                                            |
| Explanation of max. output current  | max. 100 mA on pin 12                                         |
| Inductive loads                     | Typ.: Relay 17 K / 2 H, pneumatic valve 1.4 K / 190 mH        |
| Max. output current (total) [mA]    | 200                                                           |
| Ethernet transmission rate [Mbit/s] | 100                                                           |
| Number of switchable IOs            | 6                                                             |
| Number of outputs                   | 2                                                             |
| Number of inputs                    | 2                                                             |
| Encoder functions                   | No                                                            |

| Mechanical data                               |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| Height [mm]                                   | 85.0                                                          |
| Length [mm]                                   | 45.0                                                          |
| Width [mm]                                    | 45.0                                                          |
| Weight [g]                                    | ~ 220                                                         |
| Front panel material                          | PMMA                                                          |
| Housing material                              | Aluminum (cast)                                               |
| Connection name                               | Supply                                                        |
| - Number of pins                              | 12                                                            |
| - Coding                                      | A                                                             |
| - Thread                                      | M12x1                                                         |
| - Material                                    | Metal                                                         |
| - Type                                        | Plug                                                          |
| Connection name                               | LAN                                                           |
| - Number of pins                              | 4                                                             |
| - Coding                                      | D                                                             |
| - Thread                                      | M12x1                                                         |
| - Material                                    | Metal                                                         |
| - Type                                        | Socket                                                        |
| Connection name                               | LAN                                                           |
| - Number of pins                              | 4                                                             |
| - Coding                                      | D                                                             |
| - Thread                                      | M12x1                                                         |
| - Material                                    | Metal                                                         |
| - Type                                        | Socket                                                        |
| Ambient temperature: operation [°C]           | 0 ... 50                                                      |
| Explanation of ambient temperature: operation | < 95% humidity, non-condensing                                |
| Ambient temperature: storage [°C]             | -20 ... 60                                                    |
| Explanation of ambient temperature: storage   | < 95% humidity, non-condensing                                |
| Protection class                              | IP 65, IP 67                                                  |
| Explanation of protection class               | For C-mount devices, only in combination with protective tube |
| Vibration and shock resistance                | EN 60068-2-6, EN 60068-2-27                                   |

## Technical drawings

### Dimensional drawing



### Product link

<https://www.sensopart.com/en/products/details/637-91099>

