

DATASHEET INSPEKTO S70 GEN.2

SPECIFICATIONS

| Inspection | |
|---|--|
| Inspection cycle time | ~0.3 seconds (*1) |
| Part speed | up to 0.75 m/sec (*²) |
| Installation distance | 2cm - ∞ (* ³) |
| Minimal defect size | 0.33mm @ 10cm distance W/O optical zoom (*4) |
| Optical zoom level | X17 |
| Optics and lighting adjustment (Focus, exposure, gain, others) | Autonomous embedded anti-reflection adaptive lighting |
| Detection and positioning | Autonomous |
| Trigger type | Automatic / manual / PLC / trigger-in |
| Sensor color | Greyscale |
| Number of inspection profiles supported on a single S70 | Unlimited (* ⁵) |
| Number of actionable inspection areas, regions of interest (ROIs) | Unlimited |
| PLC reporting is provided per ROI | 64 ROIs(* ⁶) |
| Lighting | Embedded, Anti-reflection adaptive lighting |
| Profile Loading Speed | |
| Loading Speed | 1.8 sec (* ⁷) |
| Controller | |
| OS | Linux (Ubuntu distribution) |
| Networking | Ethernet Wi-Fi |
| Industrial connectivity | Profinet, Ethernet/IP, TCP/IP, Digital I/O, Discrete I/O (*8 |
| Weight | 4.5 kg |
| Dimensions - height, width, depth | 110.5 mm, 225 mm, 240 mm |
| Supplied Monitor | |
| Size | 21.5" |
| Resolution | 1920 x 1080 at 60 Hz |
| Dimensions - height, width, depth | 293.4 mm, 487.3 mm, 41.3 mm |
| Mounting | |
| Industrial grade adjustable mounting system | Adjustable arm; long arm' short arm; 3 connectors; knuckles |
| Mounting tools & accessories | 2 screws, T-nuts & Allen wrench supplied |
| Cobots mounting | Ready for cobot mounting, ISO 9409-1-50-4-M6 |
| Power | |
| Power Supply | 110-240 Volt – 3 sockets for: Controller, Lighting, Monitor |
| Controller DC Input | 1x 3-pin pluggable terminal block for 8~35VDC |
| Environmental | |
| Operating Temperature | Operating ambient range is of 10 to 38 °C (50 to 100 °F) |
| Humidity | 20-80% |
| Maximum operating altitude | 2000 m asl. |
| Outdoor/Indoor usage | Indoor only |
| | · · · · · · · · · · |

(*1) Cycle time may vary & depends on image grabbing method, triggering method and other factors.
(*2) Requires triggering / automatic triggering
(*3) Recommended work distance 2-100 cm

(*4) Minimal defect size is depends on the Vision System's distance from the inspected part.
(*5) Requires TYPES[™] application
(*6) Number of reported ROIs depends on connectivity type
(*7) When loading profiles using connectivity

(*8) Digital I/O and discrete digital I/O require additional module

PRODUCT DIMENSIONS

The INSPEKTO S70 Gen. 2 is a self-contained visual inspection product. It comes ready to connect directly to your production line and your PLC with everything you need for deployment, is in the box.

What's in the box

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Mounting

assembly

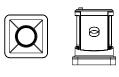






Vision System

Software Controller



Vision system

Fully integrated vision system includes:

- Camera & lens (X17 optical zoom, pixel resolution of the camera 3.2MP)
- Anti-reflection adaptive lighting
- Vibrations sensor

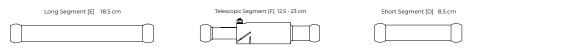
INSPEKTO S70

Quick release mounting adaptor

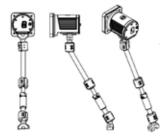
Mounting Assembly

Flexible ruggedized industrial mounting assembly for installation in various modes, adaptable to any setting.

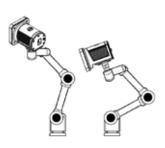
3 arm segments (long, short, adjustable) and 3 joints



Sample setting



INSPEKTO S70 Standalone



INSPEKTO S70 integrated on a standard cobot

inspecting a part handed by a cobot

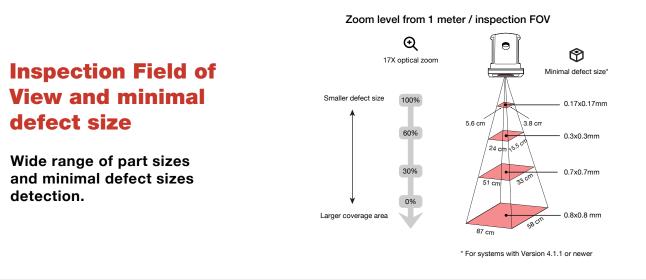
Industrial Controller

Ruggedized edge computing controller Pre-installed INSPEKTO QUALIFY[™] application Inspekto S70 Gen.2 Connection Diagram

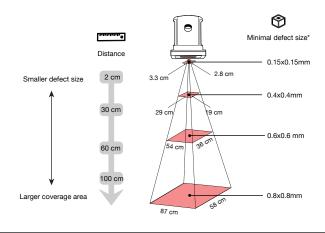


Wiring Diagram

- PLC digital I/O connectivity
- Fast and easy wiring



Vision Sensor distance from part / inspection FOV

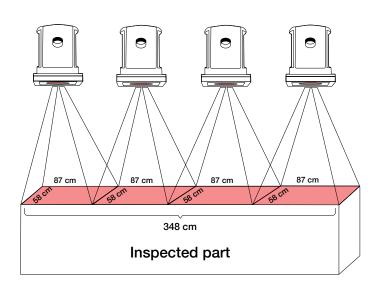


Correlated to the Vision System set-up distance from the inspected part and the level of the used optical zoom as described in the diagram.

* For systems with Version 4.1.1 or newer * The recommended minimum WD for working without external light is 4cm.

Flexible set-up

The parameters of the vision system can be modified to inspect larger products by incorporating multiple systems along the production line.





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