

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	
Number of actionable inspection areas, regions of interest (ROIs)	Unlimited	
PLC reporting is provided per ROI	64 ROIs(*5)	
Lighting	Embedded, Anti-reflection adaptive lighting	
Profile Loading Speed		
Loading Speed	1.8 sec (* ⁶)	
Controller		
OS	Linux (Ubuntu distribution)	
Networking	Ethernet Wi-Fi	
Industrial connectivity	Profinet, Ethernet/IP, TCP/IP, Digital I/O, Discrete I/O (*7)	
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	
Certification	CE certified	

- (*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) Number of reported ROIs depends on connectivity type
 (*6) When loading profiles using connectivity
 (*7) 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







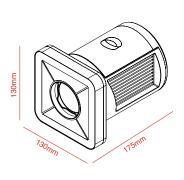
Industrial Mounting Controller assembly



















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
- Quick release mounting adaptor

Mounting Assembly

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

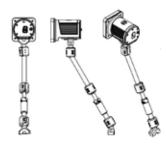
3 arm segments (long, short, adjustable) and 3 joints

Long Segment (E)	18.5 cm	

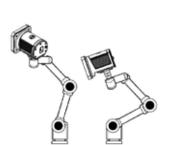




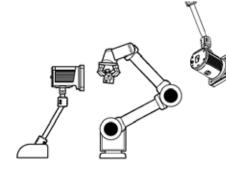
Sample setting



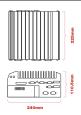
INSPEKTO S70 Standalone



INSPEKTO S70 integrated on a standard cobot



INSPEKTO S70 inspecting a part handed by a cobot



Industrial Controller

Ruggedized edge computing controller Pre-installed INSPEKTO QUALIFY™ application





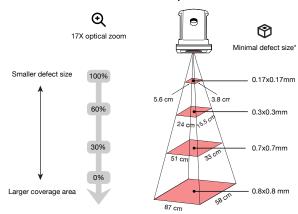
Wiring Diagram

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

Inspection Field of View and minimal defect size

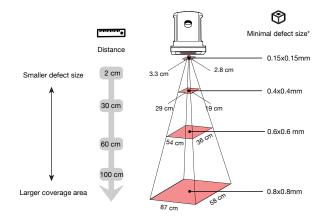
Wide range of part sizes and minimal defect sizes detection.

Zoom level from 1 meter / inspection FOV



* For systems with Version 4.1.1 or newer

Vision Sensor distance from part / inspection FOV

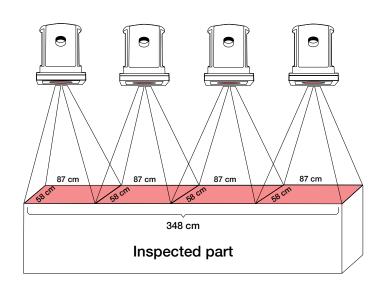


Correlated to the Vision System set-up distance from the inspected part and the level of the used optical zoom as described in the diagram.

- * 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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