

# i4H SCARA Robot

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# EXPERIENCE OMRON'S NEW i4H LINE OF SCARA ROBOTS

The **i4H SCARA robot** provides a heavier payload and performance compared to its predecessor. Customers can complete machine loading, palletizing and mechanical assembly in industries such as food & beverage and automotive. Maximize uptime with a first ever on-board display and health lighting indicator. The i4H is available in multiple configurations that include a maximum 850mm reach, 410mm quill, and a floor, wall, or inverted mount.



OMRON i4H-650H

OMRON i4-750H

OMRON i4-850H



NOTE: ETHERNET STANDALONE OPTION & INTERACTIVE MAINTENANCE FEATURE AVAILABLE SUMMER 2021.

# FOR DEMANDING TASKS

## Gain more out of production with a higher payload and faster cycle time

With an updated robust design, the i4H can achieve a more meaningful and efficient production for your factory needs.

- Higher payloads up to 15kg
- High-speed cycle times
- Available in 650, 750, 850mm reach lengths
- 210 or 410 quill options
- Standard model floor/table mounts, with optional wall mount bracket and inverted version for ceiling mounting.



# UPTIME



## Discover OMRON's unique additions to the SCARA lineup

OMRON has added a few first ever features that will help reduce downtime, prevent accidents, and make maintenance an easier process.

- First ever on-board display for troubleshooting, maintenance, and visual inspections
- World's first robot health lighting indicator

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### 14 ROBOT STATUS LIGHT CODES

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● Off	24V Not present
○ Solid White	System initializing
● Solid Blue	System booting
⦿ Blinking Blue	Idle, 24V present
⦿ Blinking Green	Operational, Servo enabled
● Solid Red	FPGA Communication loss
⦿ Blinking Red	ESTOP or ERROR

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# INTEGRATION

**Getting started with the i4H has never been easier**

Integrate with OMRON NJ through EtherCAT and programmable through IEC, along with the rest of OMRON'S-SYSMAC products.



\*AN ETHERNET OPTION FEATURING WIZARD SUPPORT FOR VISION AND PACKAGING APPLICATIONS WILL BE AVAILABLE SUMMER 2021.

# AUTOMATE YOUR PRODUCTION LINE WITH OMRON'S i4H

## Automate your full production line with OMRON

Easily program the i4H robot alongside the rest of OMRON's devices (vision, motion, IO, safety) from OMRON's single programming software, Sysmac. Additionally, OMRON's Sysmac software is able to simulate

your entire production line which reduces troubleshooting time and allows you to achieve very high levels of synchronization between multiple robots or robots and servos, all connected through EtherCAT.



# DETAILS

**The i4H SCARA (Selective Compliance Assembly Robot Arm) is a 4-axis robot with 3 rotational axes and one translational/linear axis, ideal for high-speed repeatable applications**

**Reach:** The OMRON i4H is available in three different ranges: 650mm, 750mm, and 850mm.

**Payload:** All three models have a maximum payload of 15 kg.

**Mount:** The i4H can be mounted to the floor, wall, or inverted.

**Quill:** 210mm Standard, 410mm Long Quill.

**Controller/Amplifier:** The robot includes amplifiers and a robot controller in the base. Two robot controllers are provided, the iCS-ECAT (EtherCAT slave controller), and the iCS-ENET (Standalone Ethernet/IP controller).

Product		i4-650H	i4-750H	i4-850H
Reach		650mm	750mm	850mm
Maximum Payload		15kg		
Quill Length		210 / 410mm	210 / 410mm	210 / 410mm
Repeatability	XY (mm)	±0.015	±0.025	±0.025
	Z (mm)	±0.01	±0.01	±0.01
	Theta (deg)	±0.005	±0.005	±0.005
Cycle Times*	Burst (s)	0.44	0.44	
	Sustained (s)	0.48	0.54	0.54
	Blended Burst (s)**	0.37	0.37	0.37

NOTE: STANDALONE ETHERNET OPTION AVAILABLE SUMMER 2021.

\*ADEPT CYCLE, IN MM 25/305/25 (SECONDS, AT 20C AMBIENT) WITH 2.0KG PAYLOAD

\*\*FAST CYCLE, IN MM (25/305/25) (SECONDS, AT 20C AMBIENT) WITH 2.0KG PAYLOAD BUT WITH ARC MOTION

**OMRON Corporation Industrial Automation Company**

Kyoto, JAPAN

Contact: [www.ia.omron.com](http://www.ia.omron.com)

**Regional Headquarters**

**OMRON EUROPE B.V.**

Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands

Tel: (31)2356-81-300/Fax: (31)2356-81-388

**OMRON ASIA PACIFIC PTE. LTD.**

No. 438A Alexandra Road # 05-05/08 (Lobby 2),  
Alexandra Technopark,  
Singapore 119967

Tel: (65) 6835-3011/Fax: (65) 6835-2711

**OMRON ELECTRONICS LLC**

2895 Greenspoint Parkway, Suite 200 Hoffman Estates,  
IL 60169 U.S.A.

Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

**OMRON ROBOTICS AND SAFETY TECHNOLOGIES, INC.**

4225 Hacienda Dr, Pleasanton, CA 94588 U.S.A.

Tel: (1) 925-245-3400/Fax: (1) 925-960-0590

**OMRON (CHINA) CO., LTD.**

Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China

Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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