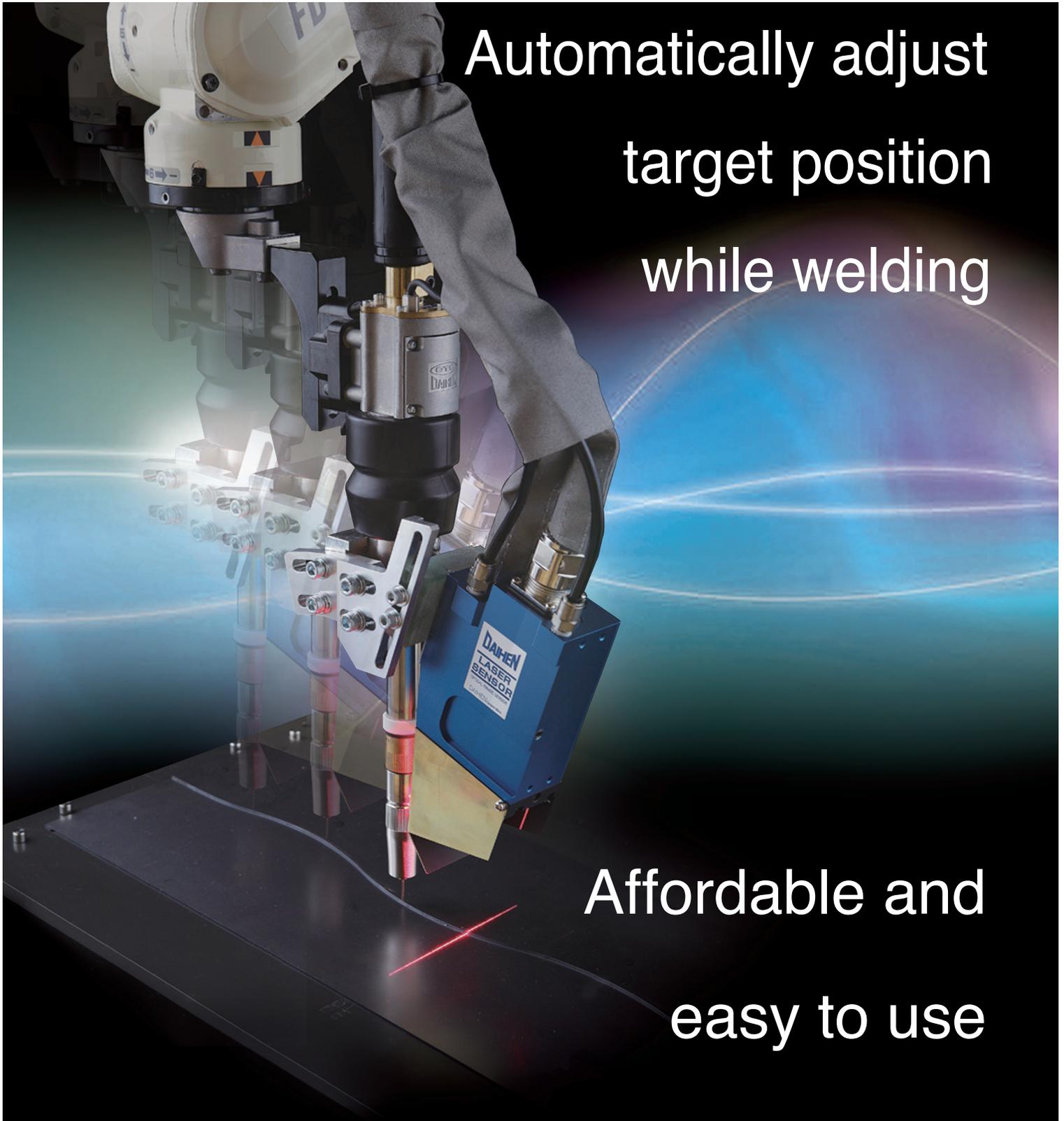




Almega Friendly series
Laser Tracking Sensor
FD-QT



Automatically adjust
target position
while welding

Affordable and
easy to use

■ Improve Welding Quality

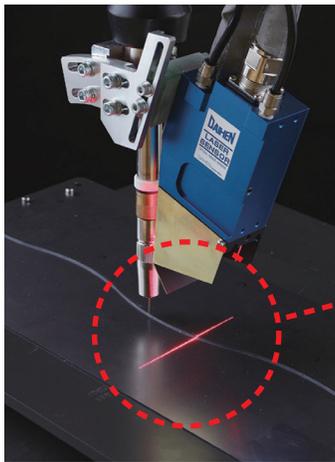
Detects welding position and gaps, automatically adjust torch angle and welding conditions, preventing welding failure.

■ Shorten teaching hours

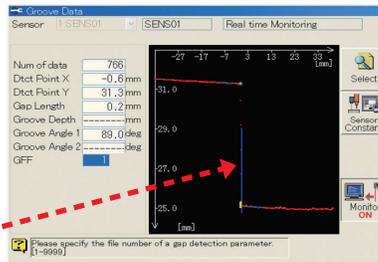
Automatically detect welding start point, finish point, 1 program is able to handle different welding lengths.

■ Easy teaching

Can be operated by teach pendant.



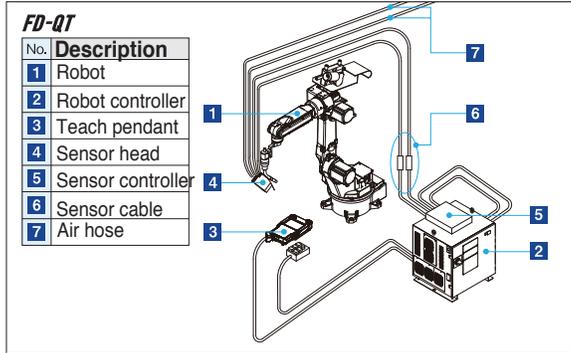
Monitor Detection Status on the Teach Pendant



[Sensor Head Specifications]

Item	FD-QT
Measuring method	Automatic laser synchronizer triangulation
Standoff ^(1,2)	82.5mm
Measurement Depth	65mm
Measurement Width	Near end: 23mm, Far end: 46mm
Average resolution (Depth)	0.103 mm
Average resolution (Width)	Near end: 0.023 mm Far end: 0.040 mm
Measurement cycle	50 images (Maximum)
Laser source	Visible red laser diode (Wavelength 660 nm)
Classification	Class 3B (Output 120 mW or less)
Dimensions (W x D x H)	192 (W) x 91 (D) x 53.8 (H) mm
Weight	0.89 kg
Working ambient temperature	0-40°C
Working ambient humidity	20-85%RH (No condensation)
Cooling method ^(3,4)	Forced air cooling with dried air
Protection for optics	Air or welding gas purge and disposable lens

- *1 Ask for pretesting to make sure this sensor can meet your requirements, before purchasing.
- *2 The word "standoff" is the distance between the bottom of the sensor head and the near end of the measurement range.
- *3 Use in combination with a water-cooled torch and/or high-current welding in narrow grooves may raise the ambient temperature of the sensor head more than the specified range. In this case, we suggest the water-cooling option. Ask for pretesting to check if this can work.
- *4 Dried air (oil and mist-free) is required. When the air contains (oil) mist, use air filters. Mist in Cooling air can cause the product to malfunction.



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