

Hall-effect Fuel Level Sensor

Mass-Produced Product
Since 2019

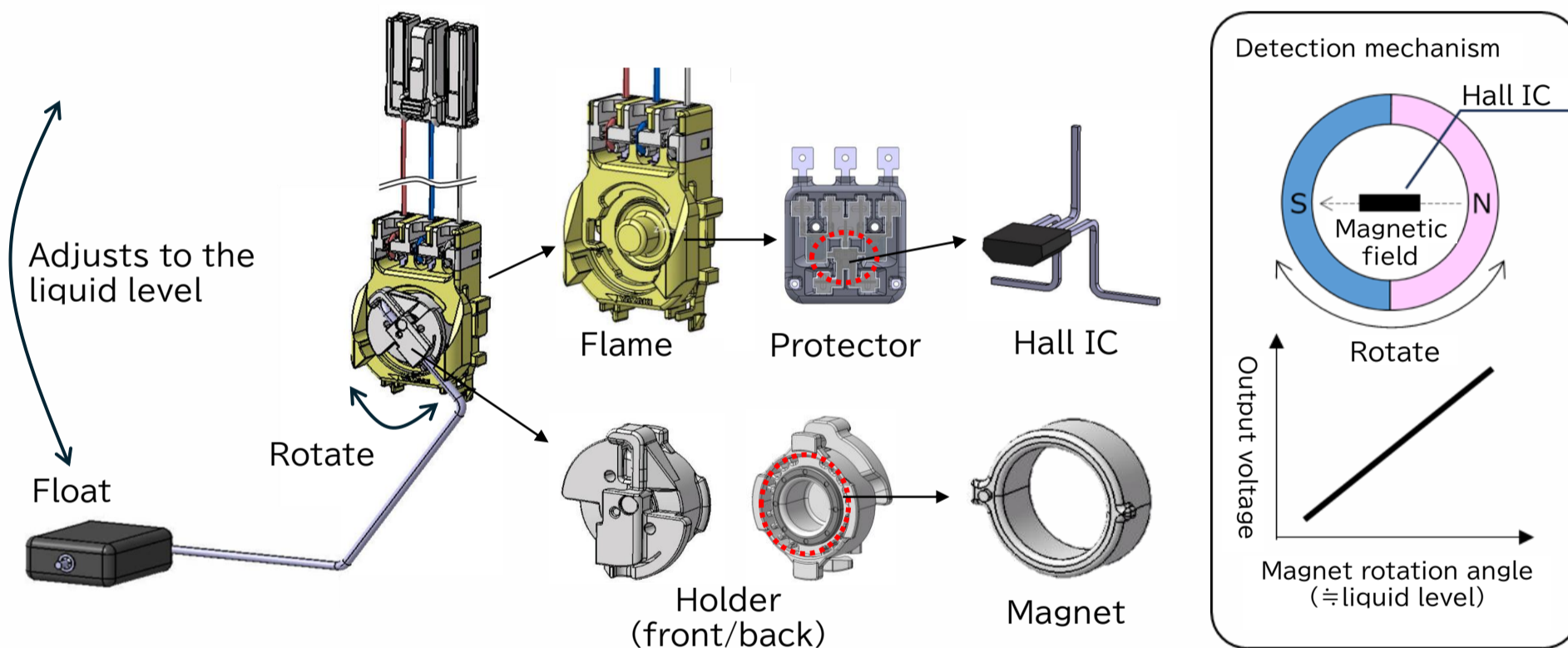
Resolves all issues of metal contact type, such as contact failure, abnormal wear, foreign matter intrusion, etc., significantly improving reliability

Background or assignment

- ① Eliminates defects caused by conventional metal contact type
- ② Compatible with carbon-neutral fuels

Solutions to Challenges

- 1 Adopts a magnetic detection method using hall IC and magnet (non-contact in the detection part)



- 2 Compatible with E100 and B30 fuels (other new fuels are under evaluation)

Fuel	Details	Availability
E100	Ethanol 100%	Available
B30	Biodiesel 30%	Available
B100	Biodiesel 100%	Planning for evaluation
HVO	Hydrogenated vegetable oils	Under evaluation
GTL	Converting natural gas to liquid fuel	Planning for evaluation
e-fuel	Synthesized from hydrogen and CO ₂	Planning for evaluation

Production results: started in 2019
(6 million units in accumulated total, annually 1.8 million units)