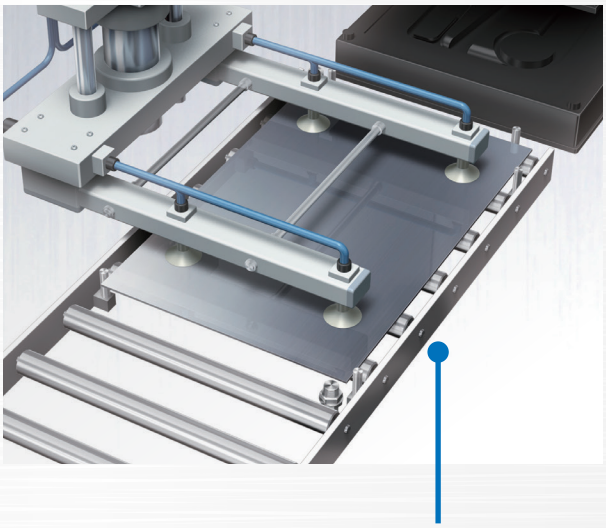
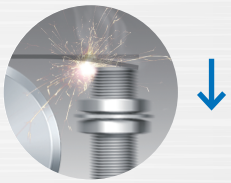
E2EW: Full Stainless Steel Body Proximity Sensor

Resistant to the most common types of sensor damage in Automotive Manufacturing



Sitting position detection of metal plates

Resin Head



Broken by collision

Friction/collisions with workpieces causes the sensing surface (head) to wear out, eventually leading to insulation breakdown

E2EW
(Full Metal Body)

Resistant to collision

Exceptional sensing range and thick full metal head eliminate abrasion factors to deliver insulationbreakdown resistance

Thick metal head structure

Resistant to friction with workpieces and metal cleaning brushes

In wear resistance tests using stainless-steel brushes rotating at 130 rpm, insulation breakdown occurred in 50 minutes for resin heads, while no insulation breakdown occurred even after 400 minutes for metal heads[1].

1. Tests performed on an M18 quadruple distance model (with 0.4 mm sensing surface thickness).

Brush test

Resin head proximity sensors E2E-X7D1

Insulation breakdown in 50 minutes

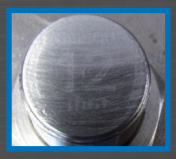
Initial state

After 50 minutes

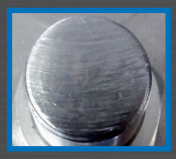
Metal head proximity sensors E2EW-X12□18

No insulation breakdown

Initial state



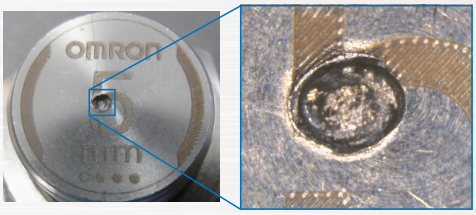
After 50 minutes



After 400 minutes

Resistant to workpiece collision

Continuous impact test



Continuous impact test results showed that the sensing surface was not penetrated even after being impacted 200,000 times. No insulation breakdown occurred[1].

1. Sensing surface thickness varies for different models. Please refer to the datasheet for details.