

USE CASE

Wearable Digital Identity for Industry 4.0 Manufacturing

Supporting Secure Authentication Without Slowing Production

Industry 4.0 connects machines, people, and data across the enterprise. As workers move between production lines, engineering stations, quality control, and warehouse operations, the KSI-WRISTBAND provides a secure, convenient credential that stays with the worker — enabling fast authentication and helping maintain uptime.



KSI-WRISTBAND

DESFire® EV3 Silicone Authentication Wristband



CHALLENGE

Workers authenticate multiple times each shift as they move between workstations, machines, and systems.

- Traditional badges are easy to forget or misplace
- Credentials can be damaged or get in the way of work
- Frequent authentication interrupts workflow
- Card management adds administrative overhead



RISK

- Lost or forgotten credentials delay production
- Badge sharing increases security risk
- Unauthorized access to equipment or systems
- Workflow disruptions reduce efficiency
- Compliance and audit exposure



SOLUTION

KSI-WRISTBAND delivers wearable, contactless authentication built for modern manufacturing.



DESFire® EV3 Technology
Fast, secure, and encrypted authentication



Wearable Credential
Always with the worker throughout the entire shift



Tap-and-Go Convenience
Efficient authentication at every authorized workstation



OUTCOME



Faster workstation access



Reduced credential loss and downtime



Supports digital identity initiatives



Improves workforce mobility and efficiency



Helps maintain production uptime



Strengthens access control and security



IDEAL PLACEMENT



Smart factories



Manufacturing facilities



Distribution centers



Maintenance departments



Logistics operations



Pharmaceutical production



Clean manufacturing

KSI-WRISTBAND in Action: INDUSTRY 4.0 WORKFLOW

1 WORKER BEGINS SHIFT



Employee wears the KSI-WRISTBAND for secure, hands-free authentication.

2 WORKER AUTHENTICATES



Tap wristband to quickly and securely access the workstation or system.

3 MOVES THROUGHOUT FACILITY



Worker transitions between production lines, quality control, maintenance, and more.

4 AUTHENTICATES AGAIN



Fast tap authentication at each new workstation keeps the workflow moving.

5 PRODUCTION CONTINUES



Secure access without searching for a badge — staying focused on the job.



Digital identity should move with the worker — not slow production.

