autoID
Dynic Corp Saitana

PRODUCT DATASHEET

METAL LINE BLIDE M730

On Metal RFID label with exceptional performance combined with high tack adhesive for challenging surfaces

ELECTRICAL SPECIFICATION

Device type
Class 1 Generation 2 passive UHF RFID transponder
Air interface protocol
EPCGlobal Class1 Gen2 ISO 18000-6C
Operational frequency
ETSI: 865 - 869 MHz
FCC: 902 - 928 MHz
IC type
Impinj® M730
Memory configuration
EPC 128 bit; TID 96 bit
EPC memory content
Unique random 96bit EPC in every label
Read range (2W ERP)*
ETSI and FCC
On metal up to 10 m / 33 ft
On plastic up to 5 m / 16 ft
On liquid up to 4 m / 13 ft
Applicable surface materials*
Optimized for metal but works on any surface
Attachment on curved surface
Label can be attached on a curved surface. Check installation instructions for more details.

* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may have an effect on performance.

RADIATION PATTERNS

MECHANICAL SPECIFICATION

Background adhesive
High tack adhesive with excellent adhesion to all surfaces including low surface energy plastics.
Weight
0,9 g
Delivery format
400 pcs good labels on reel, bad ones marked with “XXX” printing. Typical yield >95%.
Pitch on reel
33,87 mm / 1.33”
Reel core inner diameter
76 mm / 3”
Tag dimensions
60 x 25 x 1.4 mm / 2.36 x 0.98 x 0.055”

ENVIRONMENTAL RESISTANCE

Operating temperature
-35°C to +85°C / -31°F to +185°F
Peak temperature
+110°C / 230°F for 10min
Ambient temperature
-35°C to +85°C /-31°F to +185°F
Water resistance
IP68, tested for 5 hours in 1m deep water
Washing resistance
Tolerates industrial washing with standard solvents. Washing process should be tested in final application.
Chemical resistance
No physical or performance changes in:

- 168h Sulfuric acid (10%, pH 2) exposure
- 168h Motor oil exposure
- 168h Salt water (salinity 10%) exposure
- 2h NaOH (10%, pH 13) exposure

Acetone should be avoided
Storage condition
1 year in +20°C / 50% RH

Environmental values are the best recommendations; resistance against different conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product’s final suitability for certain environmental conditions is recommended to be tested.

INSTALLATION INSTRUCTIONS

When attaching the label ensure the following

- Select a smooth surface without uneven areas below tag
- Avoid touching the background adhesive and IC location

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents.

Ideal application temperature is from +21°C to +38°C (+70°F to +100°F). Bond strength can be improved with firm application pressure and moderate heating up to +54°C (+130°F). Application at temperatures below 10°C (50°F) is not recommended. Adhesive of METAL LINE BLIDE M730 is having very high initial tack, meaning that it adheres in seconds and reaches close to final bonding strength in minutes. Adhesive is also suitable for other than metallic surfaces.

Optimal read range is achieved when is metal on the non-wrapped side of the label, like shown in the below picture.

Smallest recommended bending diameter of the Metal Line Blide M730 is 100mm. For optimal performance please bend the label in the orientation shown below.

PRINTER COMPATIBILITY

The Autoid Silverline family is designed and verified to work with the **Custom Zebra ZT410 RFID Silverline and ZT411 On Metal** printers. Other Zebra printers are not recommended or supported.

Set-up instructions and printer configurations specifically for Silverline tags and the compliant printers are available.

ORDER INFORMATION

Autoid part number AUI-10026768
Product name: Metal Line Blide M730

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