

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

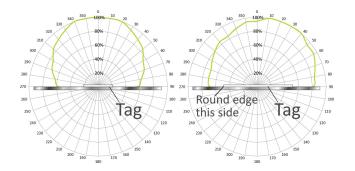
Applicable surface materials*

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.

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

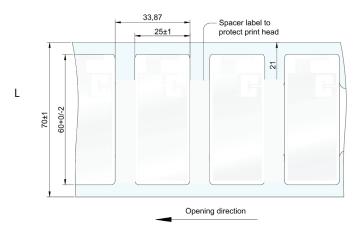
33,87 mm / 1.33"

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.

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

INSTALLATION INSTRUCTIONS



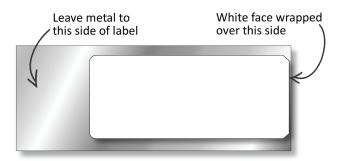
When attaching the label ensure the following

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

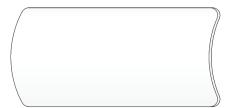
When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane or acetone for oily surfaces or isopropyl alcohol for plastics. Do not use household cleaning solvents that contain oils. Carefully read and follow the manufacturer's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

DISCLAIMER

THE MATERIALS, PRODUCTS AND SERVICES ARE SOLD SUBJECT TO ITS STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, AUTOID MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN AUTOID STANDARD CONDITIONS OF SALE, AUTOID AND ITS REPRESENTATIVES SHALL IN NO EVEN T BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Confidex products, materials, services, recommendations, or advice for its own particular use Each user must identify and perform all tests and analyses necessary to assure that its finished systems incorporating Autoid products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Autoid.