

Features

- For handheld-supported pick-to-light applications
- Enables quick location of an asset surrounded by many assets
- Bright LED indicator
- Up to 60 metres (180 feet) range
- Long battery life
- 3 identification memories
 - 40-bit factory programmed UID
 - 20 byte user defined string
 - 96-bit EPC memory
- Programmable light patterns
- ISO 18000-6c (EPC Gen2) compliance (F2M08-BLU)
- Confirmation button (F2M08-BLB)



Suitable for warehouse and stores

- Pallets / Crates
- Vehicle showrooms
- Machine parks
- Data centre racks
- Lab equipment
- Industrial equipment
- Equipment storage



Description

Pick-to-light technology utilises light to guide the picker to the item faster than most other methods. In a typical case, the picker would follow an electronic pick list on a handheld. The next item to be picked would be highlighted on the handheld as well as by the pick-to-light TAG.

The F2M08-BL0 is suitable for implementing pick-to-light applications when the inventory is stored in zones or ad-hoc rather than in specific racks or containers. In such applications, the F2M08-BL0 can be used with a handheld reader with PDA to provide picking information including quantity.

Using light as guidance for locating and picking assets is a proven method of improving productivity, including reduced time-to-pick and better picking accuracy.

Optionally, the F2M08-BL0 can be fitted with a confirmation button, for the picker to indicate when the item has been picked and an ISO 18000-6c (EPC Gen2) compliant label.

The F2M08-BL0 has a rugged IP54 grade enclosure with durable flanges.

Technical Data

Dimensions:	80 x 40 x 20 mm (96.30 x 40 x 20 mm with flanges)
Protection type:	IP54
Operating temperature:	-18...+80 °C
Powered:	2 x AA batteries
Battery voltage monitoring:	Yes
Operating frequency:	2.4GHz ISM band
Spectrum:	GFSK Frequency Hopping
Read distance:	Up to 60 meters Line of Sight
Configuration distance:	Up to 10 metres
Wireless configuration:	Via F2M07 reader or compatible
Unique Identification (UID):	Factory programmed 40 bit unique identifier for each TAG. This is a read only memory.
User defined read/write segment: (UDS):	20 byte = 160 bits = 20 ASCII characters. This is a read/write memory which can be protected by an access code.
Electronic Product Code (EPC)	96-bit EPC memory. This is a read/write memory which can be protected by an access code.
Radio modes:	Reader Talks First (RTF) Tag Talks First (TTF)
Application accessible status flag:	<i>Stopped</i> : no light indication. <i>Burst</i> : light indicator blinks 5 times with 1 second interval <i>Interval</i> : light indicator blinks with same interval as the radio blink interval <i>Continuous 1</i> : Light indicator blinks continuously with 1 second interval <i>Continuous 2</i> : Light indicator blinks continuously with 2 seconds interval
Output power:	Max 1 mW (0 dBm), settable to -5 dBm, -10 dBm and -20 dBm
Update interval:	Recommended 2-5 seconds
Conformance:	CE, FCC P.15 Class A, RoHS

Labelling

Default:	Barcode label
Option:	EPC Gen2, ISO 18000-6c compliant label (UID stored in EPC memory)

Battery life

Battery life is estimated using Energizer Industrial Alkaline AA battery (EN91) at 21°C temperature. Values are approximate and will vary with different battery types, tag configuration and environment temperature.

At 15 seconds blink interval and longer, the batteries' self-discharge becomes a more important factor than the tag's consumption.

Update interval	Lifetime	
	RTF mode	TTF mode
2 sec	1 year	2 years
6 sec	4 years	6 years
15 sec	8 years	10 years
30 sec	13 years	15 years

Status flag

The F2M08-BL0 has a status flag which can have 5 different values.

Flag	Description
STOPPED	No light indicator
BURST	When the status flag is changed from STOPPED to BURST, the light indicator will blink 5 times with 1 second interval, and after this return to STOPPED.
INTERVAL	The light indicator blinks with same interval as the radio blink interval
CONTINUOUS 1	Light indicator blinks continuously with 1 second interval
CONTINUOUS 2	Light indicator blinks continuously with 2 seconds interval

If the TAG is fitted with confirmation button, pressing the button will always set the status flag to STOPPED regardless of the flag's previous status.

Compatible readers

In general, the F2M08-BL0 Tag can be used with any F2M07 or FS700 series RFIDS™ reader. It is recommended to utilise the F2M08-BL0 with host software that can handle switch sensor events.

Part no:	Description
F2M07-S20	RFIDS™ reader with standard enclosure and RS232 interface
F2M07-SL0	RFIDS™ reader with standard enclosure and Ethernet LAN interface
F2M07-S40	RFIDS™ reader with standard enclosure and RS422 interface
F2M07-PB0A	Portable RFIDS™ reader for belt-mounting with internal short range antenna and Bluetooth interface
F2M07-D20A	Desktop RFIDS™ tag encoder with internal short range antenna and RS232

TAG ordering information

Part no:	Description
F2M08-BL0	F2M08-BL0 : RFIDS™ pick-to-light TAG in flanged enclosure (96.30 x 40 x 20 mm) with 2 x AA replaceable batteries and external light indicator.
F2M08-BLU	Same as F2M08-BL0 but with added ISO 18000-6c compliant label.
F2M08-BLB	F2M08-BLB : RFIDS™ pick-to-light TAG in flanged enclosure (96.30 x 40 x 20 mm) with 2 x AA replaceable batteries, high brightness light indicator and confirmation button
F2M08-BLBU	Same as F2M08-BLB but with added ISO 18000-6c compliant label.

Accessories

Part no:	Description
FA-08-BAA00-100	High performance AA batteries in pack of 100 pcs (2 per Tag needed)

Contact

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