



EVOLoop

**ACTIVATION & PRESENCE
SENSOR FOR BARRIERS**

FAAC

EVOLoop

The Future of Barrier Detection

WITH
FMCW TECHNOLOGY

FLEXIBLE & VERSATILE
FOR ANY APPLICATION

NO MORE HEAVY ROADWORKS

EASY INSTALLATION
& MAINTENANCE

Induction Loops & Photocells Replacement
for Automatic Barriers



Tired of cutting into roads for induction loops?

BEA EVOLoop is here to change the game.

This smart, sensor-based solution eliminates the need for induction loops and photocells, providing a faster, cleaner, and more efficient way to control automatic barriers.

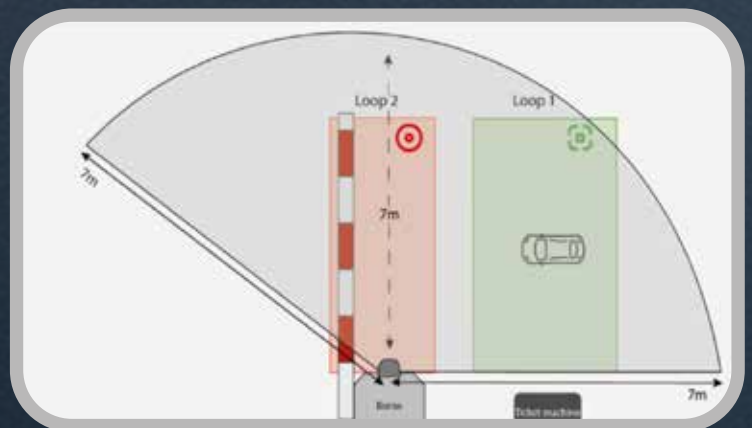
Whether you're managing access control, parking, or toll systems, EVOLoop delivers seamless detection and enhanced security – all with a simple plug-and-go installation.



No more dusty road works with noisy and heavy equipments

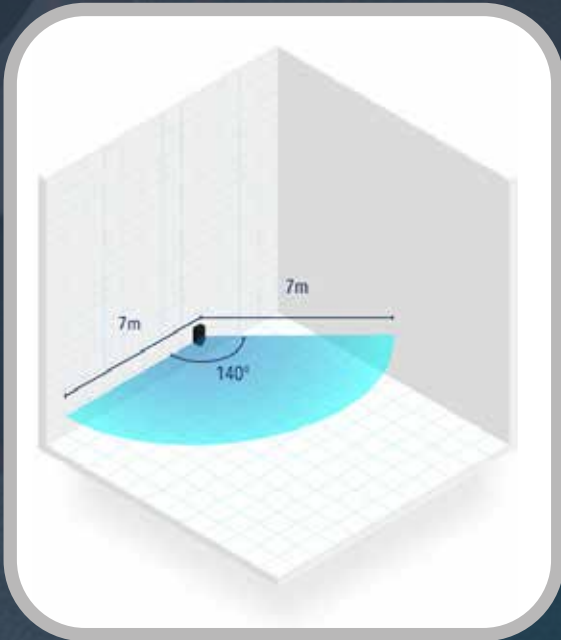
SAY GOODBYE TO INDUCTION LOOPS

The EVOLoop is a great option to replace loops, where their installation could be problematic or unreliable. An EVOLoop is very likely to detect a person in the safety field providing further safety to the barrier system. To be compliant, the barrier must have force limitation and reverse on contact, the B614, B680H and all Magnetic barriers provide this requirement.



RELIABLE DETECTION 365 DAYS A YEAR

The EVOLLOOP can be installed in any weather all year round and is particularly useful where fog and other environmental factors would be a problem for other sensors, because the virtual loops would not be affected.



POWERED BY MOWA TECHNOLOGY

The new EVOLLOOP sensor features MoWa inside, based on FMCW technology, this innovative solution measures the distance and speed of objects in its detection field. By transmitting a modulated wave and measuring the frequency shift of the reflected signal, it can detect and classify people and all types of vehicles, whether moving or standing still.

- **140° horizontal and 40° vertical detection field with adjustable angles**

**Detection range up to 7 metres
Flexible for various applications**

**Customisable virtual loops
Up to 3 zones configurable with directional filter**

SIMPLIFY INSTALLATION & MAINTENANCE

With the BEA mobile app, EVOLLOOP makes setup and fine-tuning easier than ever:

- Launch a teach-in to configure virtual loops in seconds.
- Adjust settings remotely to fit your specific application.
- Send diagnostic reports instantly for fast troubleshooting.
- Save & share installation settings for consistency across multiple sites.
- For installers, this means less downtime, fewer site visits, and a more efficient workflow.

CONNECT & SET VIA MOBILE APP



EVOLoop

Activation, presence & protection sensor for barriers

FAAC

TECHNICAL SPECIFICATIONS

Technology	FMCW, Mowa inside (microwave)
Radiated frequency	60 GHz
Max Detection Field	up to 7 m
Radiated power	< 20 dBm EIRP
Radar Field of view	140° opening field and 40° in elevation
Reference body for Safeguarding Level D	Corner reflector with RCS = 0.17m ²
Mechanical angle	from -20° to +20° without the need for additional accessories
Supply voltage*	12 – 30V DC +/-10% - 12-24V AC +/-10%
Max Power consumption	<3W
Peak Current at power-on	1.3A
Cable Length	3m (standard)
Response Time	Typical 100ms (max 250ms)
Degree of protection	IP65 (IEC/EN 60529)
Temperature range	-25°C to +55°C **; 0-95% relative humidity, non condensing
Dimensions and Material	50 mm x 150 mm x 68mm (form factor) PC / ASA / Aluminium ADC12 – black color
Outputs**	2 electronic relays (galvanic isolated - polarity free) 1 relay
Conformity	EN 12453 (type D)

* External electrical sources must ensure double insulation from primary voltages.

** When using AC supply, the maximum temperature is limited to 50°C.

ACCESSORIES



Metallic protective cover



Metallic bracket



Metallic housing



Metallic bracket and housing

FAAC
A BRAND OF
FAAC TECHNOLOGIES

www.faac.biz

www.faac technologies.com

HEADQUARTERS

FAAC S.p.A. - Soc. Unipersonale
Via Calari 10 - 40069 Zola Predosa (BO)
Tel. +39 051 61724 - Fax +39 051 0957820
it.info@faac technologies.com

For an on-going product improvement, FAAC SpA reserves the right to make technical modifications without prior notice. All rights are reserved and the reproduction, in any form or by any means, of the whole or any part of this publication, is forbidden without prior permission of FAAC SpA.