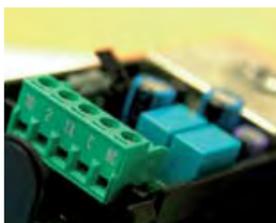


### Main features

INFRARED-BEAM PHOTOCELLS				
Series	Model	Range (m/ft)	Power supply (V)	Features
Doc	DOC-I	18 / 59'	12-24 A.C.-D.C.	
Doc	DOC-E	18 / 59'	12-24 A.C.-D.C.	
Dir	DIR10	10 / 32' 8"	12-24 A.C.-D.C.	●
Dir	DIR20	20 / 65' 6"	12-24 A.C.-D.C.	●
Dir	DIR30	30 / 98' 4"	12-24 A.C.-D.C.	●
Db	DBC01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	●
Db	DBC03	10 / 32' 8"	batteries 4 x 1.5 AAA10	●
Db	DBC04	10 / 32' 8"	batteries 4 x 1.5 AAA10	●
Db	DBC01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	● ● ● ●
Db	DBS01	10 / 32' 8"	Tx batteries 4 x 1.5 AAA10	● ● ● ●
Db	DBCT	10 / 32' 8"	batteries 4 x 1.5 AAA10	● ● ● ●

● **Synchronised infrared beam.**  
 Photocell synchronisation (via cable) can be carried out between each pair of transmitters and receivers. This allows for multiple sets of photocells even in close proximity to each other or at double heights without the risk of interference.



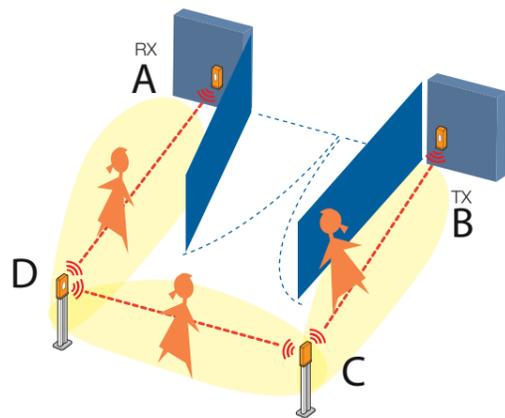
● **Wireless photocells.**  
 No cables or digging required and guaranteed perimeter protection on the moving area of the gate.



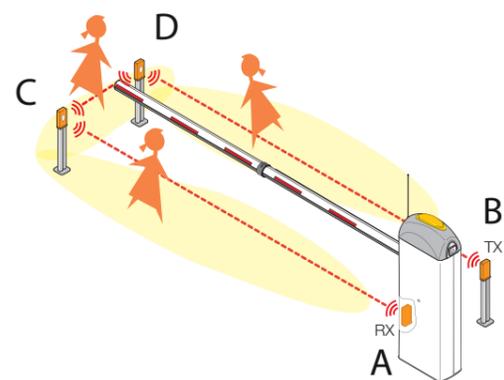
● **The integrated system.**  
 The integrated Db + Df system can control the traffic zone and that behind the sliding gate leaves. Infrared beam technology can work with sensitive edges installed on the gate leaf, thereby solving the risk of accidental contact with the gate and does away with complicated cable laying.



### Application schemes for swing gates and Parking barriers



Example of perimeter coverage on a swing gate with Wireless photocells.  
 A = DBC01 receiver  
 B = DBC01 transmitter  
 C = DBC03 repeater  
 D = DBC04 repeater



Example of perimeter coverage on a Parking barrier with Wireless photocells.  
 A = DBC01 receiver  
 B = DBC01 transmitter  
 C = DBC03 repeater  
 D = DBC04 repeater

### Dir: The synchronised photocell



The DIR photocells' operation principle consists of auto-synchronising the infrared beams between receiver and transmitter. This function allows for multiple installation requirements that are typical in industrial settings, where devices need to be placed at two different heights.

### Accessories



Photocell mounting is simple, thanks to the range of modular aluminium columns. Elegant and accurate in design, they are always perfectly integrable in any applicable context.

### Main features

Sensitive safety edges				
Series	Model	Operation	Length (m/ft)	Connected accessories
Df	DF15	Mechanical contact	1.5 / 4'11"	Db series photocells
Df	DF17	Mechanical contact	1.7 / 5'6"	Db series photocells
Df	DF20	Mechanical contact	2 / 6'5"	Db series photocells
Df	DF25	Mechanical contact	2.5 / 8'2"	Db series photocells

For sliding gates.  
 Thanks to the integrated Db + Df system, safety edges can be installed on the sliding-gate leaves for their opening and closing phases.



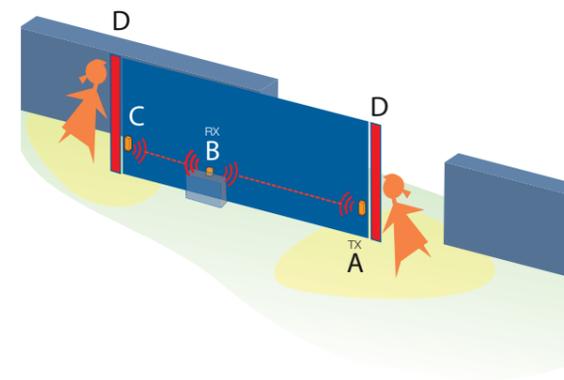
For swing gates.  
 Installed vertically on the end of the gate leaf or across the gate's fixed part to protect the area just behind the gate's movement range.



Entirely deformable.  
 Thanks to their patented internal mechanism, Df safety edges are deformable along their entire length and have no rigid parts. This guarantees top protective efficacy.



### Application schemes for sliding gates



Example application of the Db+Df integrated system on a sliding gate.  
 A = Pair of photocells - DBS01 (TX)  
 B = Pair of DBS01 photocells (RX)  
 C = Additional DBCT transmitting module  
 D = Sensitive safety edges - Df series

### Certified and patented product



The Df models are patented by CAME and are built in compliance with the EN 12978 and EN 954-1 European Standards, providing systems that are always certified and compliant.

### Various models for all needs



The Df sensitive edges come in various sizes and are ready to install, or they can also be assembled up to maximum of 6 m / 19'8" ft in length.



# Df

up to 6 m  
up to 19'8" ft

## Safety accessories

**Sensitive edges for total safety.**

Designed to meet current safety norms, DF sensitive safety edges are the answer to the requirements of multiple active protection. CAME offers a host of ready to install and customisable profiles to suit the requirements of any installation.



**Certified and patented product.**  
The Df models are patented by CAME and are built in compliance with the EN12978 and EN954-1 European Standards, ensuring systems that are always certified and compliant.



**Even on sliding gates.**  
The DB Wireless photocells allow you to use the Df sensitive edges even on the moving gate leaves of sliding gates, on the front and back of the actual leaf.



**Entirely deformable**  
The internal mechanism of the Df ensures the edge is entirely deformable along the entire length and has no rigid parts.



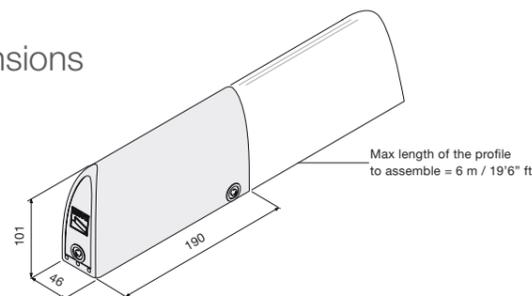
## Advantages of Df

Completing a certified automation system is now vitally important. This is true for both the installer who carries out the job as well as the client who wants to guarantee its safe use. CAME meets these needs with many specifically designed solutions, all of which comply with European Standards and are tested according to strict company standards that ensure safety is the number one priority when creating every new product. The Df sensitive safety-edges are therefore, along with other dedicated accessories, the optimal solution to raise system safety and quality to the highest possible levels.

### Limits to use

Model	Df
Max length (m/ft)	6 / 19'8"
Max speed at leaf edge (m / min) ( ft / min)	12 / 39'4"

### Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

## Technical features

Type	DF15 - DF17 - DF20 - DF20N - DF25	CP30
Protection rating	IP54	IP54
Max. length (m/ft)	6 / 19'8"	4 / 13'1"
24V relay Max range (A)	1	-
Operating temperature (°C/°F)	-20 °C to 55 °C	-4 °F to 131 °F
Material	TPE 65 Short A	TPE 65 Short A

## The complete range

### Sensitive safety edges

- 001DF15** Grey sensitive mechanical safety edge. Length = 1.5 m / 4'11"  
For use in combination with 001DFI self-diagnosing card.
- 001DF17** Grey sensitive mechanical safety edge. Length = 1.7 m / 5'6"  
For use in combination with 001DFI self-diagnosing card.
- 001DF20** Grey sensitive mechanical safety edge. Length = 2 m / 6'6"  
For use in combination with 001DFI self-diagnosing card.
- 001DF25** Grey sensitive mechanical safety edge. Length = 2.5 m / 8'2"  
For use in combination with 001DFI self-diagnosing card.
- 001CMP** Grey rubber and aluminium profile for maximum 6 m long DF sensitive edges.  
For use in combination with 001DFI self-diagnosing card.
- 001DF20N** **BLACK** sensitive mechanical safety edge (length 2 m / 6'6" ft).  
For use in combination with 001DFI self-diagnosing card.



- 001TMF** Set of caps and mechanisms for maximum 4 m long DF sensitive safety edges.
- 001TMF6** Set of caps and mechanisms for maximum 6 m long DF sensitive safety edges.
- 001DFI** Self-diagnosing card for DF electrical connections.

### Cable collecting kits

- BRC5 KIT** Power cable holder system for sensitive safety edges, installed on sliding gates up to 5m in length. (1 x BRC5 + 1 x BRCP)
- BRC10 KIT** Power cable holder system for sensitive safety edges, installed on sliding gates up to 10m in length. (1 x BRC10 + 2 x BRCP)
- BRC15 KIT** Power cable holder system for sensitive safety edges, installed on sliding gates up to 15m in length. (1 x BRC15 + 3 x BRCP)
- 001BRCP** Aluminium extension profile for use with BRC. Length = 5.1 m

### Sensitive safety edges

- 009CP30** Rubber and aluminium profile for pneumatic sensitive edges. H = 30 mm
- 001PPA** N.O. contact pressure-switch.
- 001PPC** N.C. contact pressure-switch.
- 009TBP** Connector tube for PPC and PPA.
- 009TP30** Rubber cap for pneumatic sensitive edges H = 30 mm

# Db+Df

## Integrated safety system

For sensitive safety edges on sliding gates.  
Using the Db series photocells and Df sensitive edges, installers can now fit active protection on sliding gates as required by the European Standards.  
The infrared bidirectional protection extends the field of detection, while the soft deformable edge protects against accidental contact with people, objects or pets.



**Battery powered.**  
Using long life lithium batteries to power the photocells ensures many months of maintenance-free operation. This feature does away with the need for complex cabling operations, which would otherwise be required.



**Patented product.**  
The Db+Df integrated system is an exclusive CAME patent.



**Add on to the BX-243, Bx and Bk series**  
The receiver is connected directly to the operator's control board and can receive the modulated, infrared beam on opposite axis. This feature makes it possible to install sensitive edges on both ends of the sliding gate without the need for complicated wiring.



## Advantages of Db+Df

Ready for integral mounting on sliding gate operators of the Bx-243, Bx and Bk series, the Db photocells are the answer to increased safety requirements in sliding gate systems.  
Battery-powered wireless operation means that installation is simple. No digging, cabling or masonry work is necessary. This system is easier to set up while at the same time providing greater safety. Even the paperwork is easier, because the products are already certified.

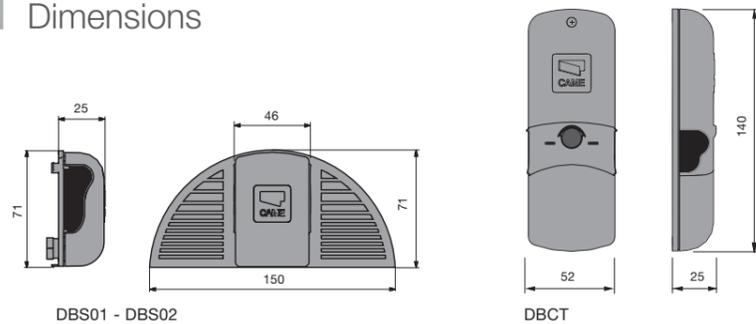
### Limits to use

Model	DBS01	DBS01	DBCT
Max range (m / ft)	10 / 32'8"	10 / 32'8"	10 / 32'8"
Max speed at leaf edge (m / min) (ft / min)	12 / 39'4"	12 / 39'4"	12 / 39'4"

● 24V A.C.-D.C.

**NOTE:** Uses 4 x 1.5v AAA batteries. min.1000mAh. (Supplied separately)

### Dimensions



Dimensions in millimetres (25.4 mm = 1 in)

### Technical features

Type		DBS01 - DBS01 - DBCT
Protection rating	IP54	
Power supply (V)	24 A.C.-D.C. (RX)	
Batteries (V)	4 x 1.5 AAA10 (TX)	
Max range (m/ft)	10 / 32'8"	
Current draw (mA a 24V A.C.)	48 (RX) - 70 (TX)	
Operating temperature (°C/°F)	-20 °C to 55 °C -4 °F to 131 °F	
Material	ABS - Polycarbonate	

● 24V A.C.-D.C.



## The complete range

### Connection systems for Df sensitive safety edges

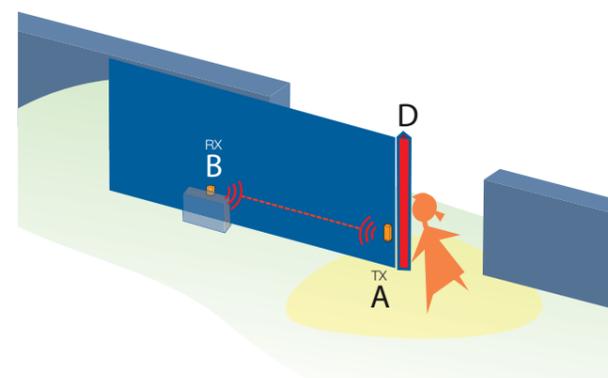


**001DBS01** Pair of wireless bidirectional infrared photocells with single contact output. Built-in receiver and external transmitter (batteries not included). For Bx-243, Bx and Bk series operators (Max range: 10 m / 32'8" ft).

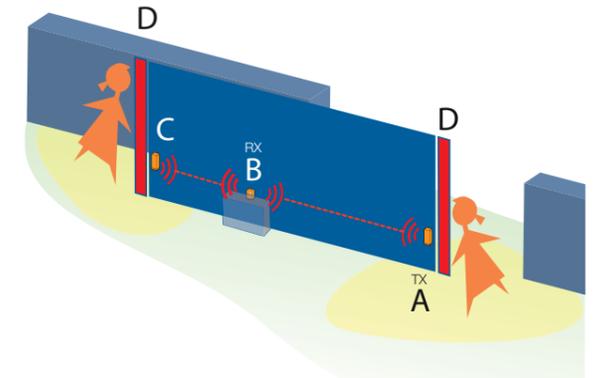
**001DBS02** Pair of wireless bidirectional infrared photocells with double contact output. Built-in receiver and external transmitter (batteries not included). For Bx-243, Bx and Bk series operators (Max range: 10 m / 32'8" ft).

**001DBCT** Surface mount transmitter module to combine with DBS02 (batteries not included) (Max range: 10 m / 32'8" ft).

### Application schemes



Find in the diagram an example of standard installation on a sliding gate with Wireless photocells.  
A = Pair of photocells - DBS01 (TX)  
B = Pair of photocells - DBS01 (RX)  
D = Safety sensitive edge - Df series



Find in the diagram a possible application of the Db+Df integrated system on a sliding gate.  
A = Pair of photocells - DBS01 (TX)  
B = Pair of photocells - DBS01 (RX)  
C = Additional DBCT transmitting module  
D = Sensitive safety edges - Df series