



SAFETY ACCESSORIES






ESSENTIAL FOR USERS' SAFETY AND THE INSTALLATION'S COMPLIANCE!

- To ensure the protection of people and property,

SIMU offers a full range of obstacle detection and signalling accessories that are suitable for most installations.

RECOMMENDATIONS TABLES

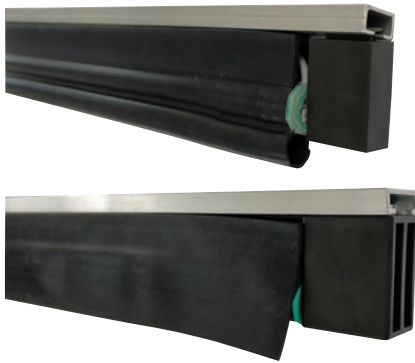
(this is the vision of SIMU, which must always be submitted to the approval of the local notified bodies)

		SAFETY BRAKE	SAFETY EDGE	CELL KITS	SIGNAL LIGHT	AREA LIGHTING
						
THAT OPEN ONTO ON PUBLIC ROAD	Control maintained within sight	yes	no	no	yes	yes
	Pulse control	yes	yes	yes*	yes	no
	Automatic control (automatic closure of the door)	yes	yes	yes*	yes	no
THAT DO NOT OPEN ONTO ON PUBLIC ROAD	Control maintained within sight	yes	no	no	no	yes
	Pulse control	yes	yes	yes*	no	no
	Automatic control (automatic closure of the door)	yes	yes	yes*	yes	no

* : for the roller grilles, cell sets at the top are also needed.

CONTACT DETECTION

WITH SAFETY EDGE



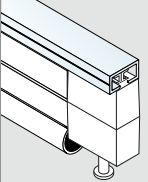

Installed under the final closure lath, the safety edge detects obstacles when closing. If an obstacle is present, a photocell integrated into the rubber section detects the crushing of the rubber and sends a signal to the control box.

- **2 sizes of safety edges available**, to choose from according the type of door laths used.
- **rubber sections with reflective interior**: detection works even if the cells are not perfectly aligned.

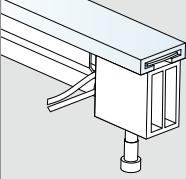
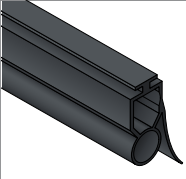


A signaling LED visible through the transmitter cell helps to monitor the safety edge proper functioning and the rubber profile wear.

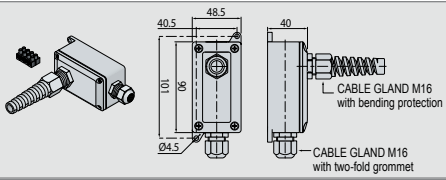
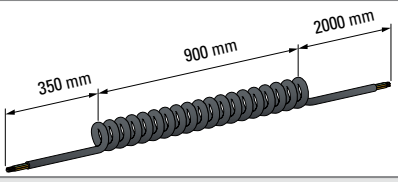
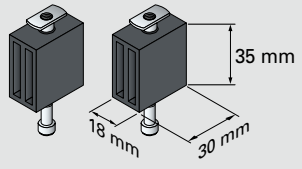
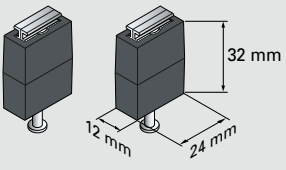
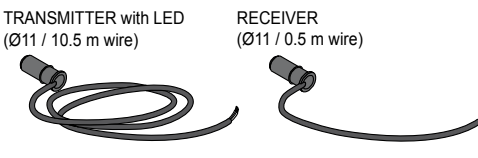
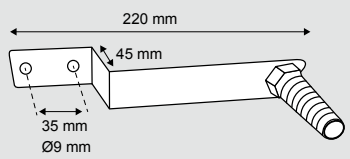
COMPONENTS FOR ROLLING DOOR WITH LATH HEIGHT $\leq 75\text{mm}$

RAIL	 <p>14,5 mm 1,2 mm 8 mm 4,2 mm</p> <p>MATERIAL: Aluminium RAIL LENGTH: 3 m</p>	<p>9016875 10 RAILS OF 3 M</p>
RUBBER SECTION	 <p>14 mm 9,6 mm 3,2 mm 16 mm 12 mm 40 mm $\varnothing 10,9$</p> <p>MATERIAL: Ethylene - Propylene - Terpolymer PROTECTION RATING: IP 67 OPERATING TEMPERATURE: - 40°C to + 100°C</p> <p>His section can be directl integrated into certain Heroal, Alulux, Alukon, Lakal and Building plastics final laths</p>	<p>9019568 ROLL OF 40 M</p>

COMPONENTS FOR ROLLING DOOR WITH LATH HEIGHT OF 75mm TO 110mm

RAIL	 <p>20 mm 1,5 mm 7 mm 10 mm 25 mm 1,5 mm 9 mm 12 mm</p> <p>MATERIAL: Aluminium RAIL LENGTH: 2.5 m</p>	<p>9016704 (Width of 20 mm) 9013406 (Width of 25 mm) 10 RAILS OF 2.5 M</p>
RUBBER SECTION	 <p>20 mm 1,3 mm 15,3 mm 3,2 mm 2,3 mm 28 mm 8 mm $\varnothing 11$</p> <p>MATERIAL: Ethylene - Propylene - Terpolymer PROTECTION RATING: IP 67 OPERATING TEMPERATURE: - 40°C to + 100°C</p> <p>His section can be directl integrated into certain Heroal, Alulux, Alukon, Lakal and Building plastics final laths</p>	<p>9015221 ROLL OF 40 M</p>

COMPONENTS FOR CONNECTION KIT

CONNECTION KIT (compatible with SD100 Hz and SD510)		CONNECTION BOX MATERIAL: ABS RAL 7035 PROTECTION RATING: IP 65 PREDRILLED BOX with a 4-pin terminal	9021160 1 KIT PER DOOR
		SPIRAL CORD DIAMETER: 4.5mm CONDUCTORS: 3 strands of 0.25mm ² EXTENDABLE LENGTH: 3.5 m	
		STOPS (X2) MATERIAL: Black polypropylene COMPATIBILITY: for rubber section ref.9015221	
		STOPS (X2) MATERIAL: Black polypropylene COMPATIBILITY: for rubber section ref.9019568	
		DETECTION CELLS OPERATING TEMPERATURE: - 20°C to + 75°C CONDUCTORS: 3 strands of 0.14 mm ² MAXIMUM SENSING DISTANCE: 10 m	
		OFFSET BRACKET INSTALLATION: 2 meters maximum of the control box	

OPENING/CLOSING SIGNALLED

BY LIGHT



ORANGE LIGHT

Signal the opening and closing movement of the door.

Recommended to signal the movement of the door and necessary in case of exit on the public road.

DESCRIPTION	REFERENCE
MASTERPRO 230V ORANGE LIGHT	9015034
MASTERPRO 24V ORANGE LIGHT	9026384

Fixing screws and dowels supplied.

	MASTERPRO ORANGE LIGHT 230V	MASTERPRO ORANGE LIGHT 24V
REFERENCE	9015034	9026384
USE	230V	24V AC/DC
BLINK MANAGEMENT	By the orange light	By motor or control box
ELECTRICAL INSULATION CLASS	Class I	Class III (TBTS)
DIMENSIONS (H X Ø)	92 x 107 mm	92 x 107 mm
OPERATING TEMPERATURE	From -20°C to +60°C	From -20°C to +60°C
INDEX OF PROTECTION	IP54	IP54
POWER	25 W	3 W
WEIGHT	374 gr	435 gr
BUILT-IN ANTENNA	-	Hz 433,42 MHz
COMPATIBILITY	SD100Hz and SD510 control box	GM motor range for sectional garage doors and SD510 control box

PRESENCE DETECTION

BY PHOTOCELLS

Photocells detect obstacles when the door is going up or down.

2 available technologies:

- **Polarized reflex cells:** A single cell to be wired, the beam is reflected by a reflector.
- **Cell barrier:** 2 cells installed on each side of the door, with a transmitting cell and a receiving cell.



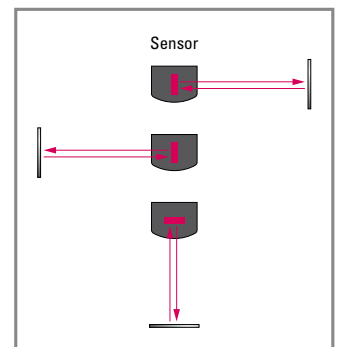
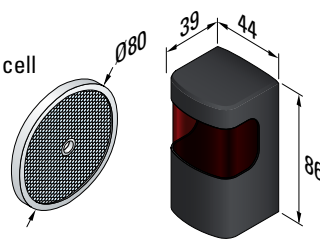
POLARIZED REFLEX CELL



- Sturdy: Double protective housing
- Adjustable 90° with 3 possible positions
- Simplified wiring, a single cell to be connected
- Complete Kit comes with 1 Reflex cell, 1 Ø 80 mm reflector, 4 screws, 4 bolts, 3 elastomers for adjustment

DESCRIPTION	REFERENCE
Reflex cell	2008394

- POWER SUPPLY** 12-24 VDC / VAC (-15% +20%)
- CONTACT** N.O. or N.F.
- RANGE** up to 12 m (less in fog, rain)
- PROTECTION INDEX** IP 66
- 2 CABLE OUTLETS** in the back and on the bottom of the cell
- Ø REFLECTOR** 80mm
- OPERATING TEMPERATURE** - 25°C to + 60°C
- 2 OPERATING LEDS** Power & Alignment

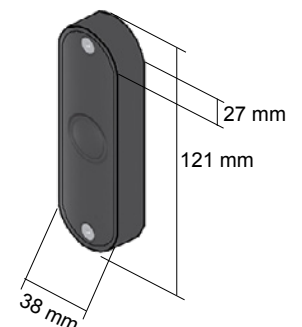


MASTER PRO BITECH CELLS



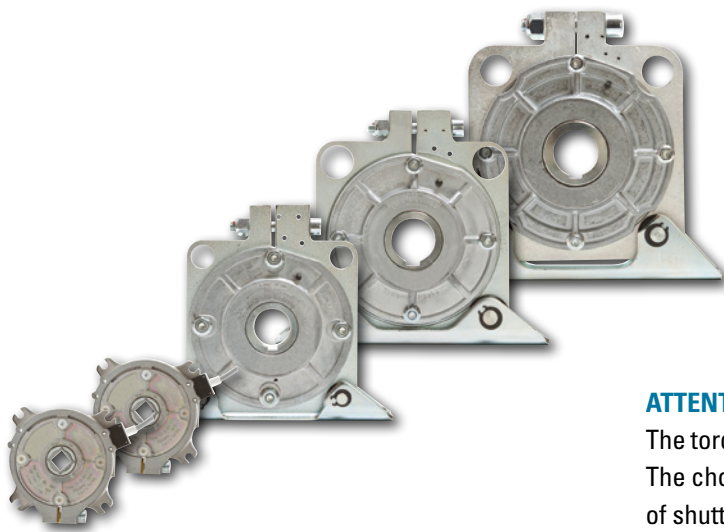
DESCRIPTION	REFERENCE
MASTER PRO BITECH cells	2009527

- POWER SUPPLY** 24 VAC/DC
- RANGE** maxi 10 m (less in fog, rain)
- PROTECTION INDEX** IP 54
- OPERATING TEMPERATURE** - 20°C to + 60°C



OVERSPEED DETECTION

WITH SAFETY BRAKES



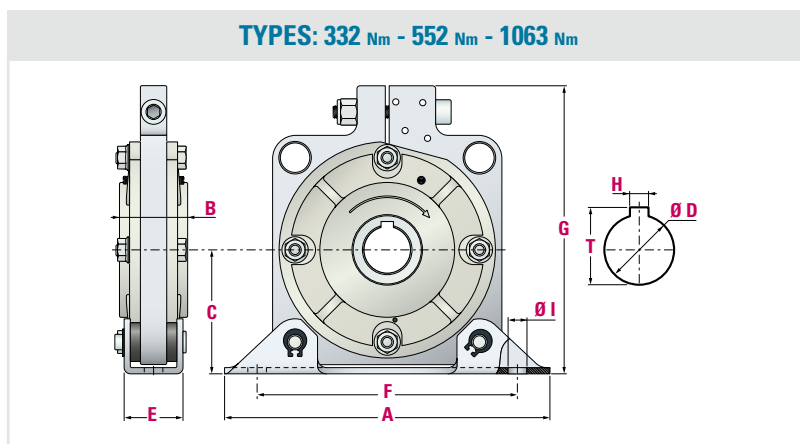
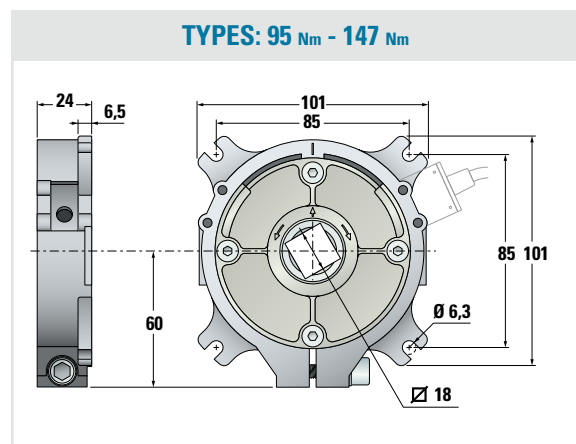
- The safety brake detects a sudden overspeed if there is a shutter suspension component failure and it blocks the descent of the shutter and cuts power of the motor.

- A full range of accessories adapted for most of installations (supports, plates, angle brackets for plates, end caps, shaft for end caps).

ATTENTION

The torque of the safety brake and of the motor are different data. The choice of a safety brake depends on the tube and the weight of shutter and not on the motor torque.

TECHNICAL CHARACTERISTICS



SAFETY BRAKE	A	B	C	Ø D	E	F	G	H	Ø I	T
332 Nm	210 mm	44 mm	80 mm	30 mm	38 mm	180 mm	185 mm	8 mm	12 mm	33,3 mm
552 Nm	260 mm	50 mm	100 mm	40 mm	45 mm	230 mm	225 mm	12 mm	14 mm	43,3 mm
1063 Nm	340 mm	78 mm	150 mm	50 mm	75 mm	300 mm	320 mm	14 mm	22 mm	53,8 mm






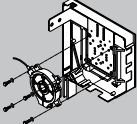

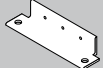
SELECTION CHARTS

TYPE OF TUBE	SAFETY BRAKE				
	95 Nm	147 Nm	332 Nm	552 Nm	1063 Nm
OCTO 70 MM	86 Kg* - 217 Kg**	91 Kg* - 336 Kg**	-	-	-
ZF 80 (ZURFLUH FELLER)	76 Kg* - 190 Kg**	79 Kg* - 294 Kg**	-	-	-
LP 89 (DEPRAT)	77 Kg* - 171 Kg**	80 Kg* - 264 Kg**	-	-	-
102 x 2 / 101.6 x 3.6	121 Kg	175 Kg	517 Kg	-	-
133 x 2.5 / 133 x 4	96 Kg	160 Kg	450 Kg	660 Kg	-
159 x 4.5	-	129 Kg	396 Kg	600 Kg	-
168 x 3.5 / 168 x 4.5	-	-	370 Kg	580 Kg	980 Kg
193.7 x 5.4	-	-	325 Kg	500 Kg	927 Kg
219.1 x 5.9	-	-	282 Kg	470 Kg	830 Kg

* Maximum value according to the resistance of the tube

** Maximum value accepted by the safety brake

REFERENCES

							
REFERENCE	2007927	2007928	2007929	2007930	2007931	2007932	2007933
CABLE LENGTH	1 m	5 m	1 m	5 m	1 m	1 m	1 m
ADMISSIBLE TORQUE	95 Nm		147 Nm		332 Nm	552 Nm	1063 Nm
INTERCEPTING MOMENT	545 Nm		812 Nm		796 Nm	1253 Nm	4092 Nm
WORKING SPEED	22 rpm		22 rpm		22 rpm	22 rpm	18 rpm
WEIGHT	1 Kg		1 Kg		4,5 Kg	8 Kg	23 Kg
SCREWING (not supplied)	4 screws: M6 x 20 DIN 912 Zn 8,8 4 nuts: HU6 DIN 934 4 washers: Ø6.4 x Ø18 x 1.6 DIN 9021Zn		4 screws: M6 x 20 DIN 912 Zn 8,8 4 nuts: HU6 DIN 934 4 washers: Ø6.4 x Ø18 x 1.6 DIN 9021Zn		2 screws: DIN 933 M10 x 30 Zn 8,8 2 nuts: DIN 934 M10 Zn 2 washers: DIN 125 Ø10.5 Zn	2 screws: DIN 933 M12 x 40 Zn 8,8 2 nuts: DIN 934 M12 Zn 2 washers: DIN 125 Ø13 Zn	2 screws: DIN 933 M20 x 55 Zn 8,8 2 nuts: DIN 934 M20 Zn 2 washers: DIN 125 Ø21 Zn
BRACKETS	 Safety brakes 95 and 147 Nm are directly screwed on side plates (without any bracket)				 bracket + screws ref. 9017176	 bracket + screws ref. 9017177	 bracket + screws ref. 9017178



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