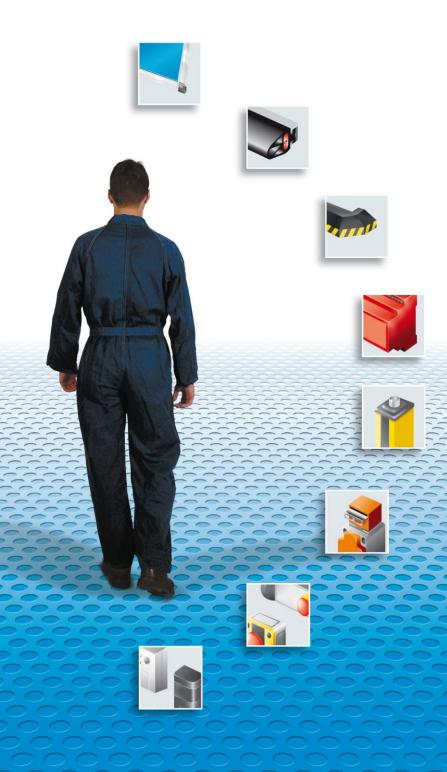
SURROUND YOURSELF with SAFETY SAFETY EDGES

TECHNICAL DOCUMENTATION





The sensitive edge is a safety component to avoid crashing or cutting risks by sliding doors, automatic moving protections, electrical gates etc. The edges feature a PVC or EPDM coating, inside is a sensor (2 conductive blades, separated by a

non-conductive part). When the edge is pressed, the blades are in contact and close the circuit. The state change of the internal sensor (NO to NC) is processed by the control unit that sends a machine stop signal, eliminating the danger situation.

TYPES OF EDGES

Type B0 Type B1N Type B2 Type B2N

Conductive edge type B1NC B1NC-B $8,2k\Omega$ Conductive edge type B1NC-AG B1NC-AGB $8,2k\Omega$ Conductive edge type B2C $8,2k\Omega$ Conductive edge B0C-B0C-AG $8,2k\Omega$ Standard solution: length upon customer's request with pre-assembled sensor and aluminium support

Standard solution (upon request) or "do it yourself" (cutting/assembly of accessories by customer/installer)

Edge type "B0"

Profile of black EPDM. The edges feature a sensor on the upper part of the profile to get maximum sensitivity.

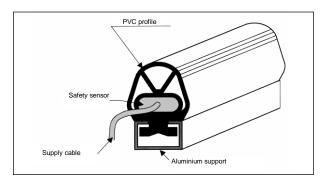
Particularly suitable for safety catches or as an alternative to emergency wire micro switching. Supplied with both sides adhesive tape for wall fixing.

The edges of the profile are sealed with polyurethane resin to perfect watertight.

The outlet cable can be only on head side.

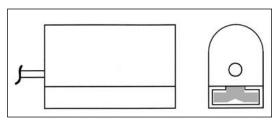
Edge type "B1N" - "B2" - "B2N"

Profile of black PVC for B1N and B2N; material EPDM for type B2. The edges feature a sensor on the bottom of the profile, to get a sensibility with front side operations, as well as with a max. angle of ±45°. The ends of the profile are closed using polyurethane resin (better tightness). Particularly suitable for bent edges.

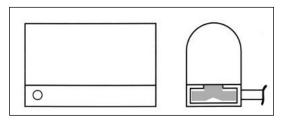


The supply cable is a 4 poles cable 4*0,35mm² FROR 300/500 standard length 3 meters. Different lengths can be supplied upon request.

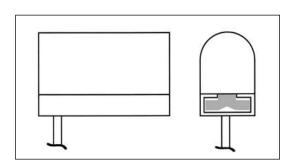
For the B1N-B2-B2N the standard outlet of the cable is at the end of the profile.(Head outlet) Upon request, the cable outlet can be on the bottom, right or left side (see drawing).



Head outlet (standard)



Side outlet right(see picture) or left



Bottom outlet

TECHNICAL FEATURES

Description	Type B0	Type B1N	Type B2	Type B2N	
	25	35	25	2	
Operating distance	3 mm	5 mm	5 mm	5 mm	
Overrun operation	2 mm	20 mm	8 mm	10 mm	
Operating thrust	30N	30N	30N	10N	
Material	EPDM	PVC	EPDM	PVC	
Length	max15 m upon request	ma	ax 6 m upon request		
Fastening material	Double-sided adhesive tape		Alu profile		
Chemical resistance	Acids, atmospheric agents	Oils, hydrocarbons, Diesel oil	Acids, atmospheric agents	Oil, hydrocarbons, Diesel oil	
Degree of protection		IP54			
Operating temperature		-5°C to +5	0°C		
Power cord		2*0.35m	m		
Output contact		NO			
Max contact voltage		30 V			
Max contact current		30 mA			
Reference standards	EN 13856-2 , EN ISO 13849-1				
Safety parameters	Combined with GP02/E		Combined with GP02R.T		
Category	3	3			
PL	е		е		
PFH	8,58*10 ⁻⁸		8,58*10 ⁻⁸		
No. of operations/year	5000	5000			
Usage categories	DC13(24) – 1,5A AC1(230) – 1,5A AC15(230) – 2A	AC15(230) – 4 A			
Mission time [years]	20	20			
Max controllable length	12 m		20 m		
Part of human body which can be detected	Hand, limb, body				

How to order a sensitive edge type B0-B1N-B2-B2N:

Example: ordering a sensitive edge, length 1 m.

For a correct order, always specify:

- -type of sensitive edge... (ex. **B1N**)
- -length (mm) of the profile... (ex. 1000 mm)
- -length of the supply cable and outlet (ex. CS standard 3 m with head outlet.

Specify if different for type B1N-B2-B2N.only.

- -the fastening profile (ex."SAC25" or "SAI25" or
- "SAL25" see drawing)

The complete description for the order is: Sensitive edge type B1N L=1000 mm-CS-SAC

The conductive edges $8.2k\Omega$

Featuring a thermoplastic profile TPE with 2 coextruded parts of conductive material (sensor) and 2 copper wires, to stabilize the resistive value of the contact on the length of the edge.

Particularly suitable for external use, with any environment and temperature (-15°C +55°C).

It can be supplied as a "do it yourself" solution, with a series of accessories allowing to the customer/installer to implement the edge directly on the machine.

Upon request, the edge can be tailor-cut and supplied complete with all accessories.

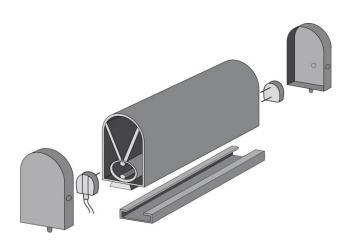
The supply of the system is made by electric cable 2 wires 2*0,35 mm² CEI 20-22 with die-cast

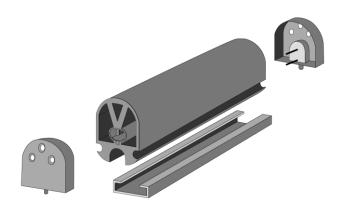
needle connector to allow an easy insertion into the chamber containing the copper cable. Standard length of cable 3 meters.

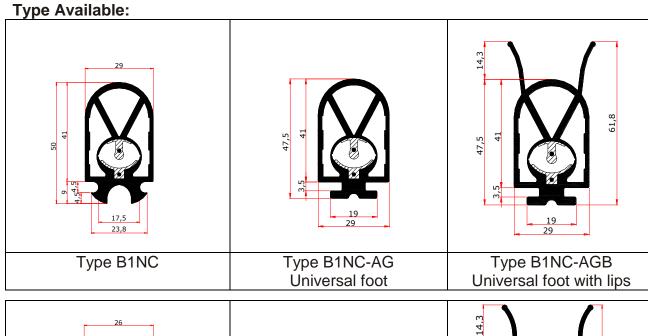
The electric circuit is closed by a needle connector containing an electric resistance 8,2kOhm.

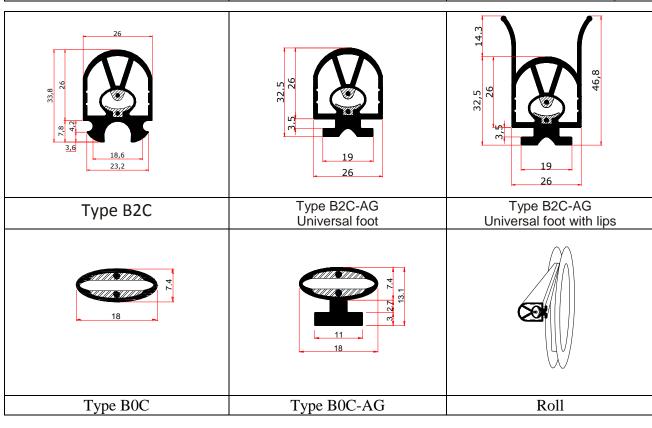
The ends of the edge are sealed by means of special plugs that, stuck with a special stick, have a better tightness to water.

The standard outlet of the supply cable is at the end of the profile. If the outlet is lateral or on the bottom, please communicate at the order. For the "do it yourself" solution, the cable outlet is made by drilling the cable hole into the terminal plug.









TECHNICAL FEATURES

Description	Type B1NC Type B1NC-B	Type B1NC-AG Type B1NC-AGB	Type B2C Type B2C-AG
Max operating angle α	90°		
Pre-run (specimen ø80 - 100 mm/sec)	5,0	05 mm	5,40
Overrun		mm - 250N	3,28 mm - 250N
(specimen ø80, 10 mm/sec)		mm - 400N	4,18 mm - 400N
,	20,237	mm - 600 N	6,88 mm - 600N
Max operating force	146 N (-15°C)		84 N (-15°C)
(specimen ø80 - 100 mm/sec)	1101	<u> </u>	3111(10.0)
Material		TPE black colour	
Length*		ed version, max 6 mt or 2	
Max length of sensor		n (can be controlled via o	,
Weight kg/m		0,6	0,4
Mounting orientation		All	
Fastening material	alum	ninium profile standard Le	ength = 6 m
Dimensions of non-sensitive surface		40 mm from each e	nd
Operating temperature			
Chemical resistance	See Table		
Max applicable thrust		500 N	IP67
Degree of protection (EN 60529)	I	IP65	
Storage temperature	-15 °C - 55° C		
Power cord*	2*0.35 mm ²		
Output contact		N.O	
Max. length of connection CABLES		100 m.	
Rated supply voltage		24 VDC	
Max contact voltage		30 V	
Max contact current		30 mA	
Reference standards	EN 138	356-2, EN ISO 13849-1; I	EN ISO 12978
Safety parameters	Combined with		mbined with GP02R-C
Category		3	
PL		е	
PFH	8,58*10 ⁻⁸		
No. of operations/year	5000		
Usage categories	AC15(230) -		15(230)/DC13(24) – 3 A
EC-TYPE certification	10DM4SA107 11DM4SC16		11DM4SC16
Mission time [years]	20		
Part of human body which can be detected***	Hand, limb, body		

Resistenza chimica materiale in TPE / CHEMICHAL RESISTANCE TPE MATERIAL

Prodotto	Buona	Media	Non idonea
Products	Good	Medium	Not suitable
Acids and Alkalis	X		
Aqueous solutions	X		
Acetic Acid	X		
Acrylonitrile	X		
Aniline	X		
Bromobenzene			X
n-buthyl acetate	X		
Cyclohexane		X	
Diethyl Ehter	X		
Dimethylformmide	X		
Doityl Phthalate	X		
1,4- Dioxane	X		
95 % Ethanol	X		
Glycerol	X		
n-Hexane	X		
Methyletylketone	X		
Nitrobenzene	X		
Piperidine	X		
1-propanol	X		
Pyridine	X		
Trichloroethylene			X
Turpentine			X
Xylene		X	
Petroleum, Oils and		X	
Fuels			
Automatic		X	
Transmission fluid			
Hydraulic brake fluid	X		
Lithium grease	X		
Power steering fluid			X
Antifreeze, 50/50	X		
Ethylene Glycol/water			
Pydraul	X		
Skydrol	X		
Sunvis		X	
Ucon	X		
Freon		X	

Chemical resistance must be verified to the specific agents and conditions of usage because compatibility depends by the surrounding materials and chemicals and by other variables such as concentration and temperature. Unless otherwise specified, tests are performed at room temperature.

All values included in this document are for reference purposes only and should not be considered as material specification

How to order a sensitive edge type B1NC

Always specify the following:

- -Type of sensitive edge... (ex. **B1NC**)
- -Length (mm) of the profile.. (ex. 1000 mm)
- -Length of the supply cable and outlet ...
- (ex. CS standard 3 m, head outlet. If different, specify the length and the outlet.
- Type of fastening support (ex. "SAC29" or "Sal29" or "SAL29")

The complete order is therefore:

Sensitive edge type B1NC L=1000 mm-CS-SAC

For the "Do it yourself" solution, order according to the following scheme:

- n. 1 package profile TPE type (ex. **B1NC** standard roll 25mt)
- n. 1 package connector kits type **KC** (n. 1 connector with resistance type KCR + n. 1 connector with electric cable type KCC)
- n. 1 package standard length 6 m support of aluminium type **SAC29 SAL29 SAI29** for profile fastening
- n. 1 Kit package with 2 closing plugs type: **TC1** for profile B1NC.
- n. 1 bottle 10ml of primer cod. PR
- n. 1 bottle 10ml of stick gel cod. CY

How to order a sensitive edge type B1NC-AG

The edge B1NC-AG is different than the B1C type only for the anchorage foot studied for replacing in total the other product present into the market and for its accessories.

For ordering this type specify the following:

- -Type of sensitive edge... (ex. **B1NC-AG**)
- -Length (mm) of the profile.. (ex. 1000 mm)
- -Length of the supply cable..(CS standard 3 m), The outlet cable can be only bottom side.

For the "Do it yourself" solution, order according to the following scheme:

- n. 1 package profile TPE type ... (ex. **B1NC-AG** standard roll 25 mt)
- n. 1 package connector kits type KC1AG
- (n. 1 closing/connector with resistance type KC1AGR + n. 1 closing/connector with electric cable type KC1AGC)
- n. 1 bottle 10ml of primer cod. PR
- n. 1 bottle 10ml of stick gel cod. CY

Single items to order B1NC in case of "Do it yourself" solution

Single connector with cable (B1NC or B1NC-B) type KCC code GSB1NCKCC	P
Single connector with resistance (B1NC or B1NC-B) type KCR code GSB1NCKCR	
Closing stopper (B1NC or B1NC-B) type TC1 cod. GSB1NCTC1 (pack 2 pcs)	0 0

Single items to order B1NC-AG in case of "Do it yourself" solution

Closing connector with cable (B1NC-AG or B1NC-AGB) type KC1AGC code GSB1NCAGKC1AGC	
Closing connector with resistance (B1NC-AG or B1NC-AGB) type KC1AGR code GSB1NCAGKC1AGR	6

How to order a sensitive edge type B2C or B2C-AG

Always specify the following:

- -Type of sensitive edge... (ex. **B2C**)
- -Length (mm) of the profile.. (ex. 1000 mm)
- -Length of the supply cable (CS standard 3 m)

The outlet cable can be only bottom side.

Type of fastening support (ex. "SAC29" or "SAI29" or "SAL29")

The complete order is therefore:

Sensitive edge type B2C L=1000 mm-CS-SAC

For the "Do it yourself" solution, order according to the following scheme:

- n. 1 package profile TPE type (ex. **B2C** standard roll 25 mt)
- n. 1 package connector kits type KC2 (n. 1 closing/connector with resistance type KC2R
 + n. 1 closing/connector with electric cable type KC2C)

Type of fastening support (ex. "SAC29" or "SAI29" or "SAL29")

- n. 1 bottle 10 ml of primer cod. PR
- n. 1 bottle 10 ml of stick gel cod. CY

Single items to order B2C and B2C-AG in case of "Do it yourself" solution

Closing connector with cable (B2C) type KC2C code GSB2CKC2C	
Closing connector with resistance 8.2 kohm (B2C) type KC2R code GSB2CKC2R	

How to order a sensitive edge type B0C or B0C-AG

Always specify the following:

- -Type of sensitive edge... (ex. **B0C**)
- -Length (mm) of the profile.. (ex. 1000 mm)
- -Length of the supply cable (CS standard m 3 or C05 m 0,5)

The outlet cable can be only standard (Head outlet). Type of fastening support type SAC 15

The complete order is therefore:

Sensitive edge type B0C L=1000 mm-C(S-SAC15

For the " Do it yourself " solution, order according to the following scheme:

- n. 1 package profile TPE type (ex. **B0C** standard roll 100 mt)
- n. 1 closing/connector with resistance type BOCKCR
- n. 1 closing/connector with electric cable type B0CKCC (cable length m3) or B0CKCC1 (cable length m 0,5).

Type of fastening support SAC15

- n. 1 bottle 10 ml of primer cod. PR
- n. 1 bottle 10 ml of stick gel cod. CY

Closing connector with cable (B0C, B0C-AG) type B0CKCC code GSB0CKCC	
Closing connector with resistance 8.2 kohm (B0C, B0C-AG) type B0CKCR code GSB0CKCR	

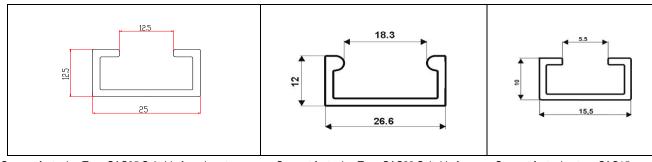
Glue bottle type CY cod. GSBCY	
Primer bottle 10 ml type PR cod. GSBPR	

EDGE FASTENING

The edge fastening is made assembling the profile onto man aluminium support, to be specified in the order.

Three types of aluminium supports are available:

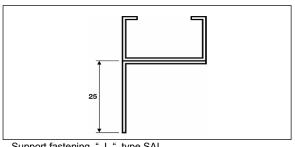
- support L fastening cod. SAL
- support I fastening cod. SAI



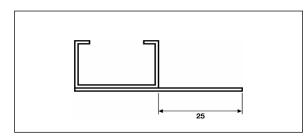
Support fastening Type SAC25 Suitable for edges type B1N,B2,B2N,B1NC-AG,B2C-AG

Support fastening Type SAC29 Suitable for edges type B1NC, B2C

Support fastening type SAC15 for edge type B0C-AG



Support fastening " L " type SAL



Support fastening " I " type SAI

All edges listed in this documentation can be supplied in bent version, with the following radiuses:

-Edge type B1N

Picture A: minimum bending radius 800 mm

Picture B: Not recommended

-Edge type B2, B2N

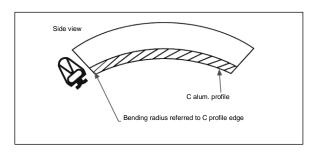
Pictures A + B: Not recommended

-Edge type B1NC, B1NC-AG, B2C, B2C-AG Picture A: minimum bending radius 500 mm Picture B: minimum bending radius 500 mm

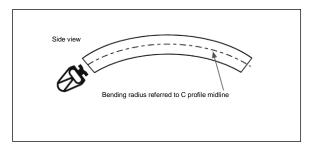
-Edge type B0C, B0C-AG

Pictures A + B: Not recommended

All edges listed in this documentation can be supplied in bent version, with the following radiuses:

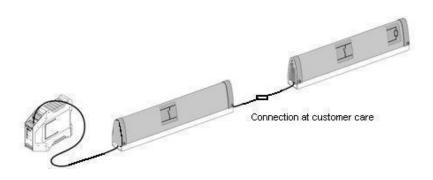


Type A: minimum bending radius



Type B: minimum bending radius

Series connection of two or more sensitive resistive edges 8.2 kohm



For applications with two or more resistive sensor in "series", for a proper connection must be provided the first sensor with input-output cable and the last of the series with the input cable and resistor (see figure).

In case of solution " **Do it yourself** " for the series connection between more resistive edges see the following accessories:

Example of order for connecting of two sensor:

- For type B1NC:

N.03 Needle connector with cable (B1NC) type KCC code GSB1NCKCC N.01 Needle connector with resistance (B1NC) type KCR code GSB1NCKCR N.02 Closing plug (B1NC) type TC1 cod. GSB1NCTC1

- For type B2C

N.03 Needle plug with cable (B2C) type KC2C code GSB2CKC2 N.01 Needle plug with resistance 8.2 kohm (B2C) type KC2R code GSB2CKC2R

- For type B0C

N.03 Needle plug with cable B0CKCC code GSB0CKCC N.01 Needle plug with resistance 8.2 kohm B0CKCR code GSB0CKCR

CONTROL UNIT/DEVICE TO CONTROL MATS EDGES AND SHOCK ABSORBERS

The control unit is a device to control the function of a sensor (mat, edge or shock absorber) by blade contacts.

The blade contact is a NO contact that closes, causing the opening of the outlet contact of the control unit.

The control unit controls the operation of the sensor and the connection circuit, and allows to

transform the NO signal of the blade contact into a NC safety signal.

A control device can control several sensors, but cannot perform the auto-diagnose indicating which sensor is faulty. If more sensors are used, use a control unit every 3-4 sensors.

MODELS AVAILABLE:

GP02/E GP02R.T – GP02R.T1 GP02R and GP02R-C Only for edges with electrical resistance 8,2 $k\Omega$

CONTROL UNIT

Description

Emergency stop circuit, used to manage and control a sensor, having two safety relays terminals with forced opening contacts.

The two relays, normally excited, are deenergized in the following conditions:

- No supply
- Operation of mat, edge, shock absorber.
- Internal faults
- Interruption of the internal circuit of mat, edge, shock absorber or connection cables between control unit and sensor (mat, edge, shock absorber).

The devices are supplied with automatic reset but they can be transformed into manual reset. If a control unit is used without rearming the function must be supplied by the control system of the machine (see std. EN 13849-1).

Operation

Two separate channels detect the voltage at the end of the safety terminals of the mat, and each channel commutes a safety relay with forced opening contacts.

Models GP02/E- GP02R.T(automatic restart)-**GP02R.T1(**manual restart)

The supply voltage is limited by a specific group and the pilot circuit, to avoid short circuit currents while closing the sensor (mat, edge, shock absorber). The control unit controls itself, as well as any other operation.

Inlet terminals are foreseen for:

- Test signal activating/deactivating the circuit of the control device simulating the operation of the sensor and checking the system efficiency.
- Signal of manual reset/ feedback-action.

The two modules are differentiated by the number of outlet contacts: model GP02/E has a NO safety contact, whereas model GP02/E-S2 and GP02R.T has two NO safety contacts.

Model GP02R and GP02R-C only for edges with electrical resistance 8,2k Ω

Two symmetric circuits detect the current in the edge, adjusted for a resistance of 8,2 k Ω . When the circuits detect a variation of \pm 4 k Ω , caused by a fault or operation of the edge, they desexcite the outlet relays, that open the safety contacts.

TECHNICAL FEATURES

TECHNICAL FEATU	KES					
Reference Standards: EN ISO13849-1, EN13856, EN6	0947-5-1	TYPE GP02/E	TYPE GP02R.T	TYPE GP02R 8,2kΩ	TYPE GP02R-C 8,2kΩ	
EN 50205 (type A)	0947-5-1	A STATE OF THE STA		THE STATE OF THE S		
PL			е			
Category			3	0		
PFH (1/h)			4,29*10			
No. of operations/year		35000	50000	5000	5000	
Usage categories		DC13(24) – 1,5 A AC1(230) – 3A	AC15(230) - 1,2 A	AC15(230) -4 A	AC15(230) – 3A DC13(24) – 3A	
Mission time [years]			20			
Electrical data			0.43/700	100/		
Supply voltage Current consumption with ma	at activated		24 VDC ±			
(24VDC)						
Current consumption with res 24VDC)			90 mA			
Internal protection of power	supply		YES (1	A)		
Inputs			\/F0			
Input short-circuit detection	dotootica		YES YES			
Input connection interruption			100 m			
Max length of connection cal Min section of connection cal			0,35 mm ² (1mm			
Max resistance of sensor	bies	100 oh		1 L>20m) 40 oł	am.	
Voltage applied to inputs		100 01	24 VD(1111	
Max current (peak value)		24 VDC 200 mA				
Safety outputs						
Number of safety outputs		1 NO 2 NO				
Rated voltage/Max switchab	le voltage	250/400 230/300				
VAC Rated current		6 A AC15 230 VAC 1,5A				
		DC13 24VDC 1,2 A				
Material of standard contacts Rated supply voltage	V AC50/60hz	AgNi AgSnO ₂				
Rated Supply Voltage	V DC	24				
Rated power AC/DC VA (50		-/0,7 -/0,25				
Delay to energizing (reset)	1 1 <i>2)/</i> V V	25 ms (typical)				
Delay to de-energizing (trip)		10 ms (typical) 13 ms				
Protection against over-curre	ent	4 A quick-action/2 A delayed				
Mechanical life		10 ⁶ 10 ⁷				
Signal outputs						
Number of signal outputs		1				
Max operating voltage	VAC	125				
	VDC	30				
Max current 110VAC		0,2A				
Max current 24VDC		0,5A				
Environmental characteristics						
Operating temperature [°C]		0 / 55 -25 /+50				
Storage temperature [°C]		-20 /+70 -25 /+70				
Max relative humidity		85%				
Degree of protection of terminals		IP20			IDOF	
Degree of protection of casin	IP30 IP65					
Dimensions Width [mm]		25 20.5 400			400	
Width [mm]		35			120 75	
Height [mm]		90				
Depth [mm]		70			155	
Weight [g]		150 ABS			_	
Material of the casing Installation		ADO	ON 35 mm On		GW PLAST 75	
		RP10DM4SA113	RP11DM4SC12		//4SA107	
EC-TYPE CERTIFICATION		KETUDIVI45ATT3	KF 1 1010145012	I KP10N	1140A 1U/	

CONTROL UNIT WIRELESS SYSTEM (RADIOSAFE FOR CONDUCTIVE EDGE 8,2 KΩ

IN ACCORDANCE TO THE SAFETY STANDARD EN12978

"TRANSCEIVER" INTERFACE FOR SAFETY EDGES

SAFEPRC4 – 433 MHz "FM" SAFEPRC8 – 868 MHz "FM" SAFETY EDGE SIGNAL INPUT NC/8.2kΩ

STATIONARY WIRELESS "TRANSCEIVER" SAFETY SYSTEM

SAFEDECX4 – 433 MHz "FM" SAFEDECX8 – 868 MHz "FM" SAFETY DEVICES 8

SAFETY OUTPUTS 3 NC/8.2Kw

MAXIMUM RANGE 30 m
PROTECTION GRADE IP65
OPERATING TEMPERATURE – 20...+55°C

Radiosafe is made up of high technology appliances, protected by robust and practical enclosure with an elevated degree of protection against environment condition.

The transmission via radio between the "transceiver" interface (safety edge interface) and the stationary "transceiver" eliminates the need for one or more safety edges to be connected to the control unit by wires. This allows a more manageable and secure application of the safety edge directly onto the gate in movement.

Radiosafe is a highly professional safety device that in combination with Gamma System's safety edges it is conform to the European safety standard ENI12978.

The stationary "transceiver" is able to manage up to 8 security device via radio and is fitted with 3 safety outputs NC/8.2k Ω settable by jumpers. The semi-transparent cover allows to verify the status of the safety device and the level of batteries charge visualized by LEDs.

Each radio controlled safety device can be associated with one of the three safety outputs by a dip-switch.

The 3V Lithium battery is reliable under all weather conditions and furnishes a high level of safety and top performance in all environments.

Note: The choice of operating frequency for the safety edge should be made after taking into consideration the operating frequency of the other units in the installation.

E.g. If the command units are working at a frequency of 433 MHz it is good practice to use a safety radio on the edge that works at a frequency of 868 MHz and vice-versa.





Examination certificate



Istituto Certificazione Europea Produtti Industriali S.p.A. organismo notificato n. 0066

Unità di comando per tappeti, bordi e bumpers Sensibili alla pressione Control unit for pressure sensitivo devices (mais, edges, bumpers)

CERTIFICATO D'ESAME CE DI TIPO EC-TYPE EXAMINATION CERTIFICATE

11DM4SC12

Nome e indirizzo del detentore del certificato Name and address of the certificato owner

Costruttore
 Manufacturer

Genere prodotto
 Product designation

Serie / Tipo Series / Type

Numero e data del rapporto di verifica
 Date and number of test raport

Direttiva(e) della Comunità Europea EC - Directive(s)

Risultato dell'esame Examination result

■ Note ■ Remarks

Il modello esaminato nel contesto delle specifiche o doi finiti riportati nel rapporto di verifica di cui sopra risulta conforme di Requisiti Essenziali di Sicurezza e Salute ad caso applicabili conformiti nolla Direffue Macchine 2008/4/2/CF. Allegato I. The model examina undar un perificio di di risultata di tre abbre etali resolutamente with the ratabili Essental and Solity Regulta naria listadini he Machinery Directive 2008/12/EC, Annox I.

2006/42/CE / All. IV 21 - 2006/42/GC / Annex FV 21

RP11DM4SC12 - 31.03.2011

GAMMA SYSTEM S.r.I.

Via Torino, 24/i 10044 PIANEZZA (TO) GAMMA SYSTEM S.r.I.

Via Torino, 24/i 10044 PIANEZZA (TO)

- Norme utilizzate per la verilloz: Slanderi sitoped for exprincipa: EN 1760-9:1967+A1:2009 EN 1760-9:2001+A1:2009 EN 1760-9:2004-A1:2009 -EN ISO 13849-1:2008, PL a.
- L'apparecontatura deve esseré installata ed utilizzata conformemente al telativo Manuate Istruzioni.
 The device must be installat and used in organit y with the instruction Manual information.

GP02R.T

- Condizioni di validità
 Valoty conditions
- Le condizioni di volidità della certificazione ICEPI sono indicata ai punii 4 e 5 del contratto per l'attività di certificazione Intervenuto fra il Contraente ed ICEPI. ICEPI certification activity contrat halween Contractor a più Siri.
- La validità del cortificato cossa il 30.03.2016 o anticipatamente in caso di combiamenti The certificals has validity unit \$3 08.2316 or before in case of standard major changes.

Piacenza, 31.03.2011



via Pholo Belizzi, 28(3): 29122 P.an-enza * Italy. pda: 439 0525 606356 * fac: 439 0525 591300 * e-mail: info@icopi.com * web site: wew.icopi.com lect. Key. Impt. PC / Cit. g Partie IVA n. 010.55751893 ILE A. di PC n. 124437 * expitale accide G 460.000.00 i.v.



Examination certificate



Istituto Certificazione Europea Prodotti Industriali S.p.A. organismo notificato n. 006

CERTIFICATO D'ESAME CE DI TIPO

10DM4SA107

■ Nome e indirizzo del detentore del certificato

Name and address of the certificate owner

Genere prodotto
 Product designation

Numero e data del rapporto di verifica
 Date and number of test report

■ Direttiva(e) della Comunità Europea ■ EC - Directive(s)

Risultato dell'esame

■ Note
■ Remarks

Standard adopted for examination: EN 1760-2:2001+A1:2009 - EN ISO 13849-1:2008, PL e - EN 12978:2003+A1:2009

Condizioni di validità
 Validity conditions

Le condizioni di validità della certificazione ICEPI sono indicate ai punti 4 e 5 del contratto per l'attività di certificazione intervenuto tra il Contraente ed ICEPI. ICEPI certification validity terms are stated in clauses 4 and 5 of the certification activity contract between contractor and ECEPI.

Consider and ICEPT.

La validità del certificato cessa il 28.01.2015 o anticipatamente in caso di cambiamenti normativi significativi.

The certificate has validity until 28.01.2015 or before in case of standard major changes.

Piacenza 29 01 2010









Istituto Certificazione Europea Prodotti Industriali S.p.A. organismo notificato n. 0066

CERTIFICATO D'ESAME CE DI TIPO

11DM4SC16

■ Nome e indirizzo del detentore del certificato

Name and address of the certificate owner

■ Costruttore

Manufacturer

■ Genere prodotto
■ Product designation

Bordo sensibile alla pressione composto da sensore ed unità di comando Pressure sensitive edge composed by edge sensor and control unit

Sensore: B1NC

Sensor: B1NC
Unità di comando: GP02R - GP02R-C
Control units: GP02R - GP02R-C

RP10DM4SA107 - 29.01.2010

2006/42/CE / All. IV 19 2006/42/EC / Annex IV 19

GAMMA SYSTEM S.r.I. Via Torino, 24/i 10044 PIANEZZA (TO)

GAMMA SYSTEM S.r.I.

Via Torino, 24/i 10044 PIANEZZA (TO)

Il modello esaminato nel contesto delle specifiche e dei limiti riportati nel rapporto di verifica di cui sopra risulta conforme ai Requisiti Essenziali di Sicurezza e Salute ad esso applicabili contenutti nella Direttiva Macchine 2006/42/CE, 14(legato I. The model examined under the specifications and limits stated in the above test report complies with the related Essential and Saltry Requirements listed in the Machiney Directive 2008/42/CE, Annex I.

- Norme utilizzate per la verifica:

L'apparecchiatura deve essere installata ed utilizzata conformemente al relativo Manuale Istruzioni.

The device must be installed and used in conformity with the Instruction Manual information.

GAMMA SYSTEM S.r.I. Via Torino, 24/i 10044 PIANEZZA (TO)

GAMMA SYSTEM S.r.I. Via Torino, 24/i 10044 PIANEZZA (TO)

Bordo sensibile alla pressione composto da sensore ed unità di comando Pressure sensitive edge composed by edge sensor and control unit

Sensore: B2C Sensor: B2C Unità di comando: GP02R - GP02R-C Control units: GP02R - GP02R-C

RP11DM4SC16 - 31.03.2011

2006/42/CE / All. IV 19 Direttiva(e) della Comunità Europea
 EC - Directive(s)

Risultato dell'esar

■ Note ■ Remarks

Il modello esaminato nei contesto delle specifiche e dei limiti riportati nel rapporto di verifica di cui sopra risulta conforme ai Requisiti Essenziali di Sicurezza e Salute ad esso applicabili contenuti nella Direttiva Macchine 2006/42/ICE, Allegato I. The modei examined under the specifications and simits stated in the above test report complies with the related Essential and 348-bit Requirements listed in the Machinery Discrette 2006/42/CE, Almes I.

Numero e data del rapporto di verifica
 Date and number of test report

Norme utilizzate per la verifica: Standard adopted for examination: EN 1760-2:2001+A1:2009 - EN ISO 13849-1:2008, PL e - EN 12978:2003+A1:2009 - EN ISO 13849-1:2008, PL e - EN 12978:2003+A1:2009 - L'apparecchiatura deve essere installata ed utilizzata conformemente al relativo Manuale Istrizzioni.

Manuale Istruzioni.
The device must be installed and used in conformity with the Instruction Manual information.

Condizioni di validità
 Validity conditions

Le condizioni di validità della certificazione ICEPI sono indicate al punti 4 e 5 del contratto per l'attività di certificazione intervenuto tra il Contraente ed ICEPI. ICEPI contication valdity terms are stated in clauses 4 and 5 of the certification activity contract between Contractor and ICEPI.

Contration and ICEPT.

La validità del certificato cessa il 30.03.2016 o anticipatamente in caso di cambiamenti normativi significativi.

The certificate has validity until 30.03.2016 or before in case of standard major changes.





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