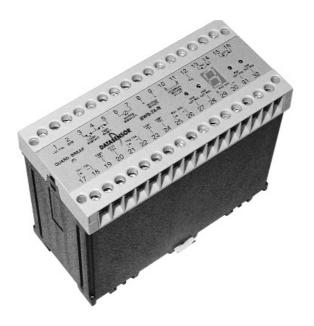
TYPE 4 SAFETY CONTROL UNITS





- Functioning with up to 4 emitter-receiver photoelectric sensors
- Device for body protection and access control
- · Versions with 'Muting', double 'Muting' and 'Override' functions
- Double safety relay output

SB-BWS-T4 SERIES

The control units of the **SB-BWS-T4** series are suitable for type 4 safety systems and can be connected with up to four emitter-receiver photoelectric sensors, available in the tubular M18 format, either in the plastic S5-F/G-ST4 or metal S10-F/G-ST4 versions for distances reaching 8 m, in the M18 tubular plastic SL5-F/G-ST4 model with class 1 and class 2 laser emission for distances reaching 40 m or in the parallelepiped S30-F/G-ST4 model reaching 50 m.

The couples of photoelectric sensors are controlled in sequence in order to avoid interferences; at any interruption of sensors beam, the contacts of the two relay outputs open causing the safety block of the controlled machinery. The autodiagnostic is continuous and the Restart is automatic or manual selectable.

The versions with 'Muting' and 'Override' offer the possibility to set, by means of the internal dip-switches, the photoelectric sensors to deactivate during material passage. The dip-switches can be easily reached through a side slot.

The **BWS-T4N-MT** model presents the 'double Muting' function that, using one single control unit, allows the control of two dangerous areas with independent mutings.

The display and a red/green bicolour LED indicates the operating status of the control unit; other 4 green LEDs signal the correct sensors' alignment.



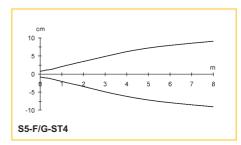


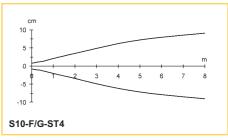
TECHNICAL DATA

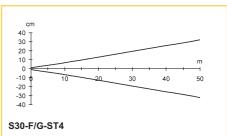
Power supply:	. 24 Vdc ± 10%, reverse polarity protection
Consumption:	. 420 mA max.
Inputs for photocells:	from 1 to 4 couples of emitter-receiver safety
	photoelectric sensors
	(S5-F/G-ST4, S10-F/G-ST4, SL5-F/G-ST4,
	S30-F/G-ST4 series)
Operating distance:	0 8 m with S5-F/G-ST4 or S10-F/G-ST4
	0 40 m with SL5-F/G-ST4,
	0 50 m with S30-F/G-ST4
Inputs:	Start/Restart - NO, Test/Reset - NC
	Muting - NO, Ext. Relays - NC
Indicators:	. 1 digit display with 7 status indications and
	9 error indications
	green/red free/interrupted beam LED
	4 green photocell alignment LEDs
	external Muting lamp 24Vdc (300 mA)
Output type:	. 2 safety relay outputs with NO contact
Output current:	. 3.15 A max. (250 Vac)
Response time:	30 ms max.
Auxiliary functions:	. Muting and Override configurable for each
	couple of photoelectric sensors, selectable
	automatic or manual Restart
Connection:	terminal block with 32 screw contacts
Mounting:	. DIN rail
Safety category:	type 4
Electrical protection:	class 2
Mechanical protection:	. IP20
Housing material:	. plastic
Weight:	· ·
Operating temperature:	-10 +55 °C
Storage temperature:	
Reference standard:	
Certifications:	. C€ @

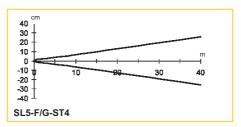
DETECTION DIAGRAMS

WITH Sx-F/G-ST PHOTOELECTRIC SENSORS









Effective aperture angle (EAA)

For further information please refer to safety photoelectric sensors (Sx-F/G-ST series)







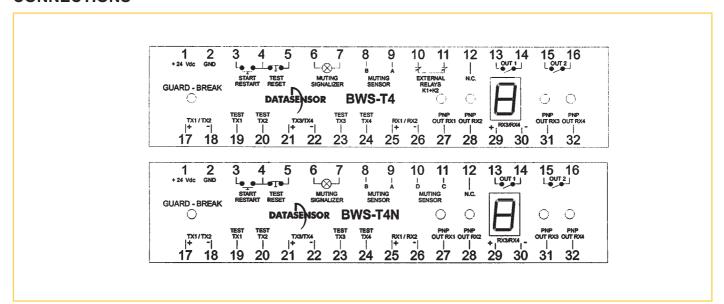




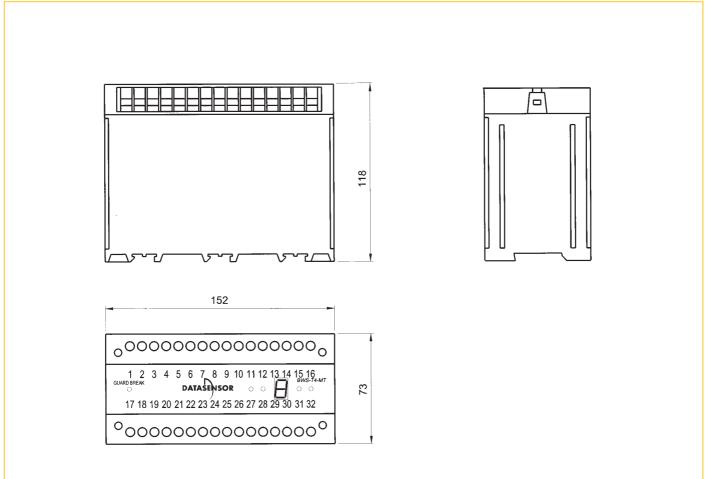




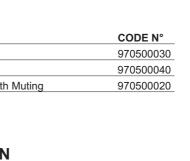
CONNECTIONS



DIMENSIONS



mm



MODEL SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	CODE N°
BWS-T4-N	type 4 control unit	970500030
BWS-T4-N-MT	type 4 control unit with double Muting	970500040
BWS-T4-MT	type 4 control unit with external contacts control with Muting	970500020

ACCESSORY SELECTION AND ORDER INFORMATION

MODEL	DESCRIPTION	CODE N°
SE-DM 150	deviating mirror	95ACC1900
LMS	muting signalling lamp	M2059004

Please refer also to $\mathbf{Sx} ext{-}\mathbf{F}/\mathbf{G} ext{-}\mathbf{ST}$ safety photoelectric sensor series

SAFETY DEVICES

Distributed by:

HEADQUARTERS

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