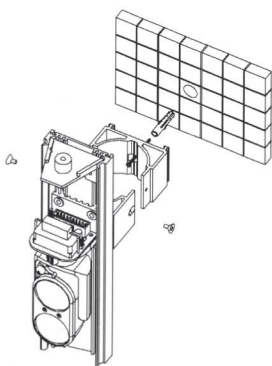


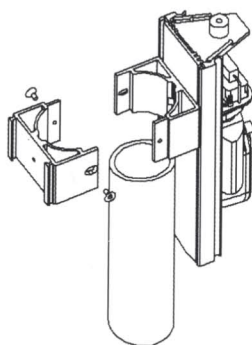
"The little infrared barrier with long range"



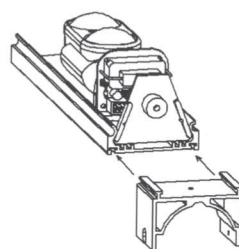
Wall mounting



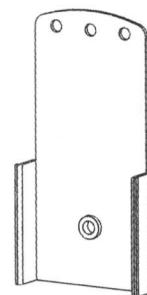
Pole mounting



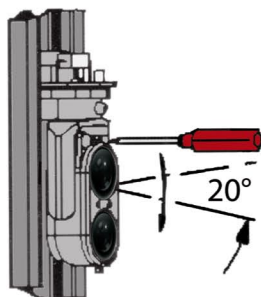
Brack insertion on aluminium frame



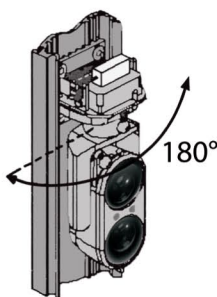
Wall mounting



Vertical alignment angle 20°



Horizontal alignment angle 180°



NEW TOP CAP WITH 4 CABLE GLANDS



QUAD/ESA SMA

HIGH BRIGHTNESS LEDs
VISIBLE AT 200m

BUZZER



The new SMA (single man alignment) technology allows for alignment by a single operator, as the high brightness LEDs and buzzer for each optical lens can reach maximum value without use of additional instrumentation. Alignment is achieved simply via a button located on each optical lens.

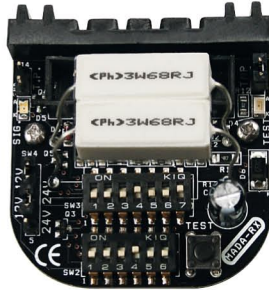
SANDOR DUAL SMA



DUAL SMA OPTICAL LENS



NEW SMA OPTICAL RX



BUTTON TO ACTIVATE
THE ALIGNMENT

HEATERS POWER SUPPLY
AT 12 OR 24 Vac / Vdc



PERFORMANCE

The new SANDOR SMA allows use of more than one barrier along the same line, as it is equipped with 4 different frequency channels.

- Crossed or parallel beams.
- Optical synchronism channel selector.
- Environmental disqualification from fog.
- AND random or first 2 optical.
- Power supply 10-30 Vdc.
- Heaters power supply 10-30 Vac/Vdc

- Random delay.
- Parallel and crossed beams.
- Environmental disqualification from fog.
- AND-OR random or first two beams.
- Beam 1 or first 2 exclusion.
- Wire or optical synchronism.
- Anti-masking with OC signal.
- Anti crawl.
- Adjustable crossing time.
- 4 optical synchronism channels.
- LED exclusion.
- RS485 connection.

SANDOR PLUS SMA





SANDOR TECHNICAL CHARACTERISTICS

	SANDOR			NEW SANDOR SMA		
	DUAL	QUAD	ESA	DUAL	QUAD	ESA
Maximum internal distance of use	300 m	300 m	300 m	400 m	400 m	400 m
Maximum external distance of use	80 m	80 m	80 m	100 m	100 m	100 m
Minimum installation distance between columns TX and RX						
Column height 1 m		4m	4m	No limit Can function with parallel beams		
Column height 1.5 m		6m	6m			
Column height 2 m		8m	8m			
Synchronization	Optical lens			Optical lens with 4 different channels		
Optical lens with dual beam	YES with 35mm in AND lenses					
Photo devices	Pulsed beams in working wave 950 NM					
Maximum double beam configuration inside column	2TX + 2RX	4TX + 4RX	6TX + 6RX	2TX + 2RX	4TX + 4RX	6TX + 6RX
Beam arrangement	(4 beams) crossed	(16 beams) crossed	(36 beams) crossed	(2 beams) parallel or (4 beams) crossed	(4 beams) parallel or (16 beams) crossed	(6 beams) parallel or (36 beams) crossed
Circuit power supply	13,8 Vdc			10 - 30 Vdc		
Circuit absorption per pair	135mA	150mA	210mA	135mA	150mA	210mA
Heater power supply	24 Vac			12 - 24 Vac - dc		
Thermostat heater absorption per column	30 W (*)	50 W	80 W	35 W	55 W	85 W
Operating temperature	from -25° to + 65° C					
Alarm outputs	Relay with NC/NO free contacts (on right column)					
Column opening tamper protection	Tamper protection output					
Environmental disqualification from fog	NO			YES with special OC output		
Protection Degree	IP54					
Size Diam. xH	60 mm x 60 mm from 500mm to 4000mm					



SANDOR FUNCTIONAL PERFORMANCE

	SANDOR			NEW SANDOR SMA		
	DUAL	QUAD	ESA	DUAL	QUAD	ESA
Tracking and alignment system	Test point on each beam			SMA technology via high brightness LED and Buzzer		
Optical excursion	180° horizontal and 20° vertical					
Operating mode settable on board or via remote	OR: single beam					
	AND Random (random of two beams)			AND Random (random of two beams)		
Response time	250ms fixed	Adjustable 50/500ms		250ms fixed	Adjustable 50/500ms	
Beam exclusion mode, can only be set via board	NO	YES		NO	YES	
LED activation	Can be excluded with dip					
Optional mounting accessories	Pole with base, pole and/or wall brackets					
Accompanying manuals	Instructions manual with application example figures					
Warranty	Integral 2 years for manufacturing defects					



SANDOR TECHNICAL CHARACTERISTICS

	SANDOR PLUS	SANDOR PLUS SMA	SANDOR WS
Maximum internal distance of use	400 m		150 m
Maximum external distance of use	100 m		40 m
Synchronization	Wire	Wire or Optical	Optical lens
Optical lens with dual beam	YES with 35mm in AND lenses		
Photo devices	Pulsed beams in working wave 950 NM		
Maximum double beam configuration inside column	4TX + 4RX		2TX + 2RX o 4TX + 4RX
Beam arrangement	Parallel		
Circuit power supply	13,8 Vdc	10 - 30 Vdc	3.6V 19Ah batteries included
Circuit absorption	From 135 to 150 mA per column, based on the number of beams		From 0.5 to 1 microA per column, based on the number of beams
Heater power supply	24 Vac	12 - 24 Vac - dc	Not required
Thermostat heater absorption	From 30 to 50 W per column, based on the number of beams		0
Operating temperature	from -25° to + 65° C		
Alarm outputs	Relay with NC/NO free contacts		Low absorption micro relay with NC/NO free contacts
Tamper protection output	Column opening tamper protection		
Environmental disqualification from fog	YES with special OC output (signal attenuation at 90%)		Yes but without a special output
Beam anti-masking	YES with special OC output		NO
RS 485 serial output	NO	YES for local and remote control on universal resident interface, owner and not, combined with management software	
Protection Degree	IP54		
Profile size LxWxH	60mm x 60 mm from 500 to 4000mm		

Heights on request and compatibility with PARVIS and MANA



SANDOR FUNCTIONAL PERFORMANCE

	SANDOR PLUS	SANDOR PLUS SMA	SANDOR WS
Tracking and alignment system	Test point on each beam	SMA technology via high brightness LED and Buzzer	Test point on each beam
Optical excursion	180° horizontal and 20° vertical		
Operating mode settable on board or via remote	OR: single beam AND Random (random of two beams) AND 1st and 2nd beam (if there are 4 beams in a column)		
Anti crawl	Settable on the first bottom beam		NO
Response time	Adjustable 50/500ms		
Time delay function	Random 0 or 2 seconds (can be activated via dip)		
Beam exclusion mode settable on board or via remote	1st beam at the bottom 1st and 2nd beam at the bottom Temporary total for 1 minute		NO
LED activation	Can be excluded with dip		
Optional mounting accessories	Pole with base, pole and/or wall brackets		
Accompanying manuals	Instructions manual with application example figures		
Warranty	Integral 2 years for manufacturing defects		