



# Acciaio LED

LED technology, high  
sturdy and intelligent  
resistance



Excellent performance for LED lighting in the tertiary and industrial sector. The structural simplicity of Acciaio LED, combined with technical materials such as splined technopolymers and toughened glass, make it a product suitable for installation in particularly demanding conditions, thanks to protection grades IP66 and IK09.

The whole allows the projection, through the microprismatic crystal, of a highly technological louvre specially designed for high-efficiency LEDs, to ensure the maximum of light output without glare. The innovative head with screw cap allows easy installation and easy connection with specific accessories such as the intelligent light sensor or the LED emergency module with built-in source and inverter.



## GENERAL CHARACTERISTICS

<b>Equivalent power*</b>	2x80 W
<b>Power supply</b>	93±265 Vac - 50/60Hz 176±250 Vdc
<b>Standard</b>	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), UNI9554:1989, DIN 18032-3:1997-04, EN 62471 (Photobiological hazard), ATEX 94/9/EC
<b>Protection grade</b>	IP66
<b>Working temperature</b>	-20°C ÷ +40°C
<b>Mountings</b>	ceiling, suspension, electrified rail, wall mounting
<b>Electronic gear</b>	Electronic SD (cos $\varphi \geq 0.96$ ) Electronic with intelligent dimming
<b>Housing</b>	polyester powder coated sheet steel RAL 7035
<b>Head Caps</b>	Technopolymer PC+PBT
<b>Louvre</b>	Wide anti-glare aluminium
<b>Diffuser</b>	micropismatic toughened glass with high transmittance
<b>MTBF Control gear**</b>	65.000 h
<b>Luminous flux maintenance**</b>	>60.000 (L80B20)
<b>Colour tolerance</b>	3 SDCM

\* Equivalent power for comparison with fluorescent tube fixtures

\*\* At a reference working temperature of 25°C

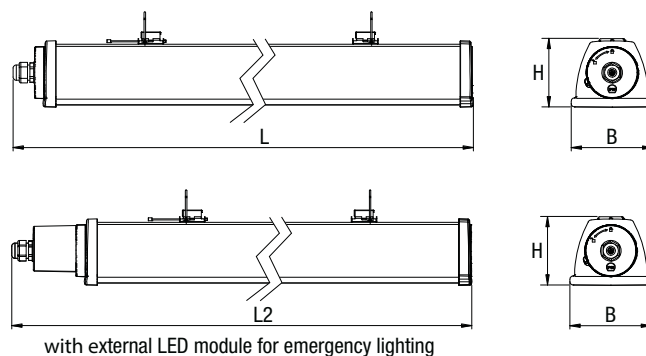
# Acciaio Top LED Atex

## Waterproof ceiling fitting

Acciaio Top LED Atex is the reply to the request for products with a high technological content for particularly demanding applications in high-risk areas. The steel housing and glass diffuser present both excellent mechanical resistance (IK09) and resistance to aggressive chemical agents. In the industrial field, it is ideally used in installations in environments with an explosive atmosphere, caused either by alterations of a gaseous type or by the presence of combustible powders suspended in the air, since it **already complies with Standard ATEX 94/9/EC** for zones 02 and 22.

The optic system is composed of a diffuser subdivided into 15 cells for optimal light distribution, and a special micropismatic glass with very high light transmittance for greater visual comfort.

Acciaio Top LED Atex is suitable for heavy-duty use even in outdoor environments directly exposed to inclement weather: it is designed to resist mechanical vibrations and electromagnetic disturbances typical of industrial environments.



Power* W	• Dimensions (mm) •				Weight max kg
	L	L2	B	H	
2x80	1565	1625	108	90	3.9

## Accessories

installed on the fixture

Order Code	Description
-	Cable gland M20
<b>15018</b>	KIT ATEX ACCIAIO ECO

## Accessories

to be ordered separately

Order Code	Description
<b>20082</b>	MOD EM ACC LED/T5 TR SE1NRM
<b>20085</b>	MOD EM ACC LED/T5 AT/LG SE1/3H
<b>20086</b>	MOD EM ACC LED/T5 LGFM SE 1/3H
<b>20113</b>	WIDE ACC DIFFUSER 1500
<b>15019</b>	INPUT DOUBLE COUPLING M20
<b>20122</b>	ORIENTABLE BRACKET

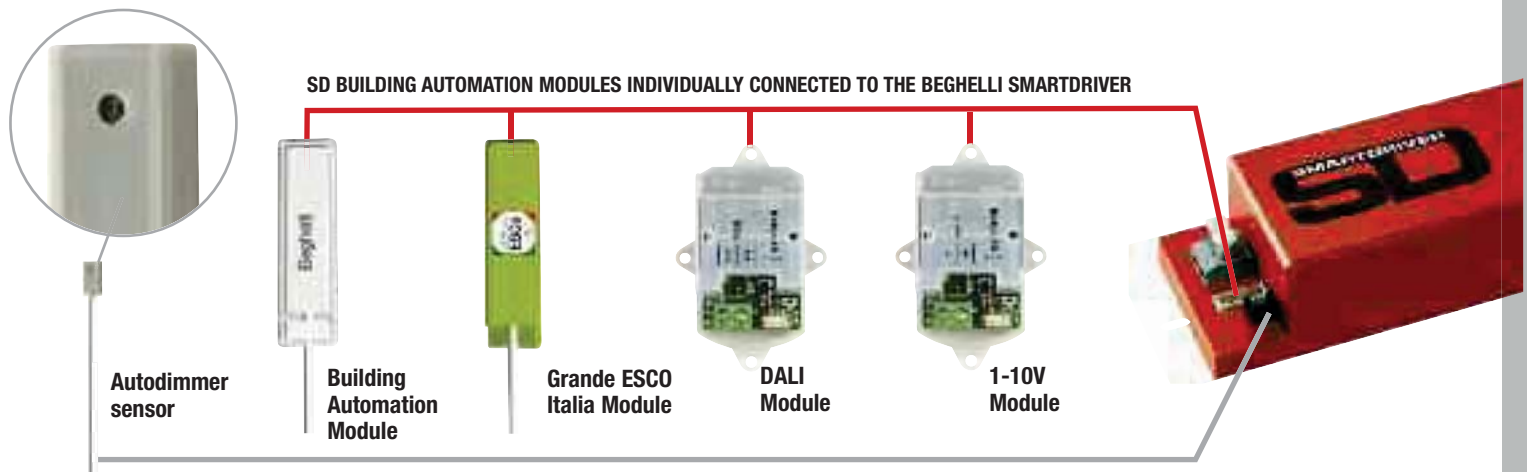
## Building automation

to be ordered separately

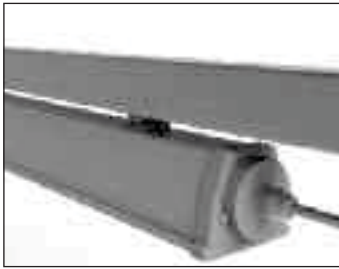
Order Code	Description
<b>20102</b>	BUILDING AUTOMATION CONTROL UNIT
<b>20104</b>	BUILDING AUTOMATION RADIO TRANSMITTER INTERFACE
<b>15020</b>	ACCIAIO AUTODIMMER SENSOR
<b>15022</b>	BUILDING AUTOMATION RADIO MODULE
<b>15024</b>	DALI MODULE
<b>15034</b>	1-10V MODULE
<b>15025</b>	GRANDE ESCO ITALIA RADIO MODULE

SPECIAL VARIATIONS: COLOUR RENDERING  $\geq 90$  - COLOUR TEMPERATURE ON REQUEST - WITH THREE-PHASE THROUGH WIRING - WITH POLYCARBONATE DIFFUSER (HACCP) - SICURO 24 (SLGS) Contact the Beggelli sales network

SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



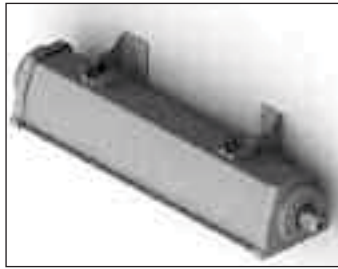
MOUNTING ON ELECTRIFIED RAIL



SUSPENDED MOUNTING



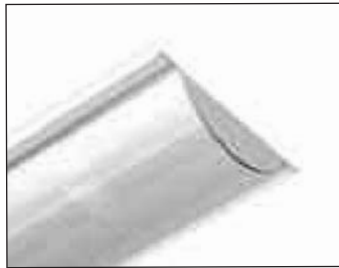
WALL MOUNTING



EXTERNAL LED MODULE FOR EMERGENCY LIGHTING



MOUNTING FOR EMITTING WIDE LIGHT



<b>20082</b>	MOD EM ACC LED/T5 TR SE1NRM	to be ordered separately
<b>20085</b>	MOD EM ACC LED/T5 AT/LG SE1/3H	to be ordered separately
<b>20086</b>	MOD EM ACC LED/T5 LGFM SE 1/3H	to be ordered separately

<b>20113</b>	WIDE DIFFUSER ACCIAIO 1500	to be ordered separately
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Polar Diagram



Standard optic

Acciaio top LED Atex

SmartDriver electronic Driver **SD**

Power* W	Order Code	Description	Power LED W	Colour temperature °K	CRI	Power consumption Max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of Fixture lm	Energy Class	Luminous efficiency lm/W
2x80	<b>A280ESD</b>	ACCIAIO TOP LED 2X80 SD 4K	68	4000 K	>80	74(48 <sup>***</sup> )	180	10440	8700	A++	120

\*\* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 150 Vac. LED power, LED Flux and output Flux from the device will be reduced in proportion to the power derating.



## GENERAL CHARACTERISTICS

<b>Equivalent power*</b>	1x36, 2x36, 1x58, 2x58 W
<b>Power supply</b>	93±265 Vac - 50/60Hz 176±250 Vdc 230Vac ±10% 50 Hz (with electronic traditional driver)
<b>Standard</b>	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), UNI9554:1989, DIN 18032-3:1997-04, EN 62471 (Photobiological hazard), ATEX 94/9/EC
<b>Protection grade</b>	IP66
<b>Working temperature</b>	-20°C ÷ +40°C
<b>Mountings</b>	ceiling, suspension, electrified rail
<b>Electronic gear</b>	Electronic SD with intelligent dimming ( $\cos \varphi \geq 0.96$ )
<b>Housing</b>	polyester powder coated sheet steel RAL 7035
<b>Head Caps</b>	Technopolymer PC+PBT
<b>Louvre</b>	Wide anti-glarealuminium
<b>Diffuser</b>	micropismatic toughened glass with high transmittance
<b>MTBF Control gear**</b>	65.000 h
<b>Luminous flux maintenance**</b>	>60.000 (L80B20)
<b>Colour tolerance</b>	3 SDCM

\*Equivalent power for comparison with fluorescent tube fixtures

\*\* At a reference working temperature of 25°C

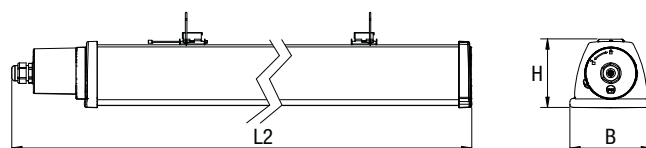
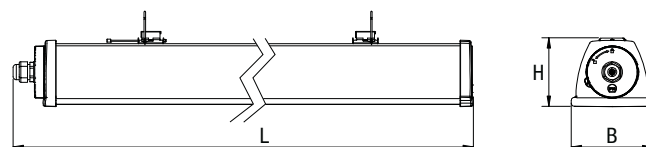
# Acciaio Eco LED

## Waterproof ceiling fitting

Acciaio Eco LED is the reply to the request for products with a high technological content for particularly demanding applications in high-risk areas. The steel housing and glass diffuser present both excellent mechanical resistance (IK09) and resistance to aggressive chemical agents. In the industrial field, it is ideally used in installations in environments with an explosive atmosphere, caused either by alterations of a gaseous type or by the presence of combustible powders suspended in the air (according to Standard ATEX 94/9/EC for zones 02 and 22).

The optic system is composed of a diffuser subdivided into 12 cells for optimal light distribution, and a special micropismatic glass with very high light transmittance for greater visual comfort.

Acciaio Eco LED is suitable for heavy-duty use even in outdoor environments directly exposed to inclement weather: it is designed to resist mechanical vibrations and electromagnetic disturbances typical of industrial environments.



with external LED module for emergency lighting

Power* W	• Dimensions (mm) •				Weight max kg
	L	L2	B	H	
1x36	1225	1285	108	90	3.2
2x36	1225	1285	108	90	3.2
1x58	1225	1285	108	90	3.2
2x58	1225	1285	108	90	3.2

## Accessories

installed on the fixture

Order Code	Description
-	Cable gland M20

## Accessories

to be ordered separately

Order Code	Description
20082	MOD EM ACC LED/T5 TR SE1NRM
20085	MOD EM ACC LED/T5 AT/LG SE1/3H
20086	MOD EM ACC LED/T5 LGFM SE 1/3H
20107	WIDE ACC DIFFUSER 1200
15019	INPUT DOUBLE COUPLING M20
15018	KIT ATEX ACCIAIO ECO
20122	ORIENTABLE BRACKET

## Building automation

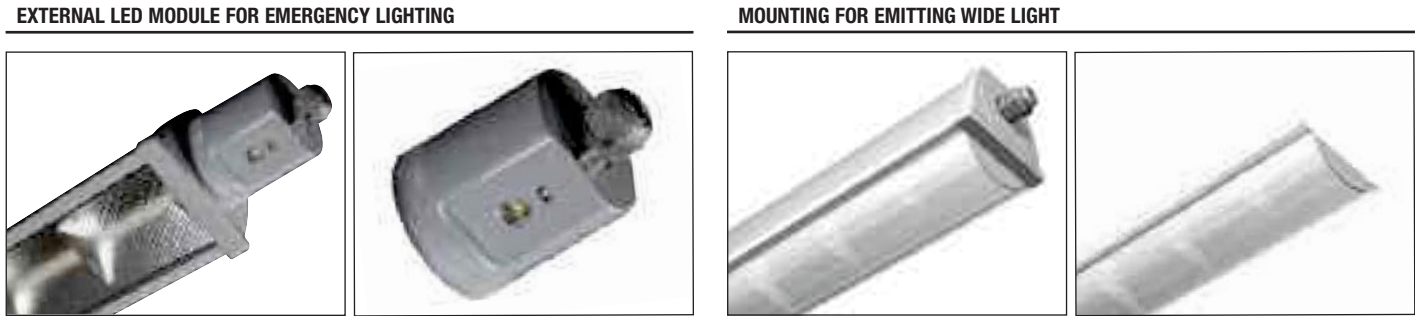
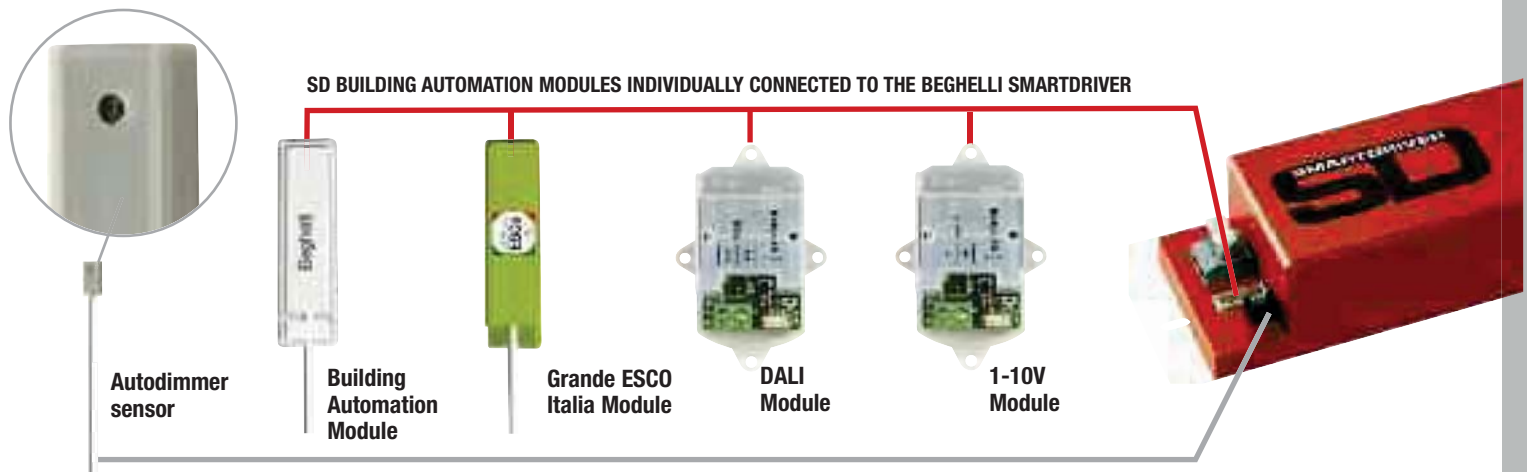
to be ordered separately

Order Code	Description
20102	BUILDING AUTOMATION CONTROL UNIT
20104	BUILDING AUTOMATION RADIO TRANSMITTER INTERFACE
15020	ACCIAIO AUTODIMMER SENSOR
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15025	GRANDE ESCO ITALIA RADIO MODULE

SPECIAL VARIATIONS: COLOUR RENDERING  $\geq 90$  - COLOUR TEMPERATURE ON REQUEST - WITH THREE-PHASE THROUGH WIRING - WITH POLYCARBONATE DIFFUSER (HACCP) - SICURO 24 (SLGS) Contact the Beghelli sales network

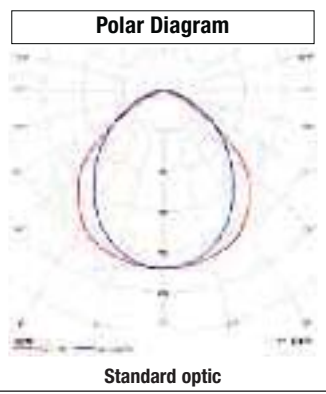


SD BUILDING AUTOMATION MODULES INDIVIDUALLY CONNECTED TO THE BEGHELLI SMARTDRIVER



<b>20082</b>	MOD EM ACC LED/T5 TR SE1NRM	to be ordered separately
<b>20085</b>	MOD EM ACC LED/T5 AT/LG SE1/3H	to be ordered separately
<b>20086</b>	MOD EM ACC LED/T5 LGFM SE 1/3H	to be ordered separately

**20107** WIDE DIFFUSER ACCIAIO 1200 to be ordered separately



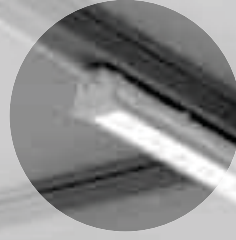
Acciaio Eco LED

SmartDriver electronic reactor **SD**

	Power* W	Order Code	Description	Power LED W	Colour temperature °K	CRI	Power consumption Max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of Fixture lm	Energy Class	Luminous efficiency lm/W
<b>SD</b>	1x36	<b>A136ESD</b>	ACCIAIO E LED 1X36 SD 4000K	17	4000 K	>80	22	48	3150	2700	A++	120
<b>SD</b>	2x36	<b>A236ESD</b>	ACCIAIO E LED 2X36 SD 4000K	35	4000 K	>80	40	96	5570	4700	A++	120
<b>SD</b>	1x58	<b>A158ESD</b>	ACCIAIO E LED 1X58 SD 4000K	26	4000 K	>80	32	72	4400	3800	A++	120
<b>SD</b>	2x58	<b>A258ESD</b>	ACCIAIO E LED 2X58 SD 4000K	52	4000 K	>80	58(48***)	144	8350	7000	A++	120
**	1x36	<b>A136E</b>	ACCIAIO E LED 1X36 D 4000K	17	4000 K	>80	22	48	3150	2700	A++	120
**	2x36	<b>A236E</b>	ACCIAIO E LED 2X36 D 4000K	35	4000 K	>80	40	96	5570	4700	A++	120
**	1x58	<b>A158E</b>	ACCIAIO E LED 1X58 D 4000K	26	4000 K	>80	32	72	4400	3800	A++	120
**	2x58	<b>A258E</b>	ACCIAIO E LED 2X58 D 4000K	52	4000 K	>80	58	144	8350	7000	A++	120

\*\* version with electronic Driver with traditional technology  
 \*\*\* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 150 Vac. LED power, LED Flux and output Flux from the device will be reduced in proportion to the power derating.

Acciao LED on an electrified rail is a typical installation in industrial environments, workshop and high-risk areas. The fixture is also available in the ATEX version for particularly heavy-duty situation and, thanks to the steel housing and technopolymer heads, it possesses very high resistance (IP66-IK09).







FIXTURES