



LED module with integrated LED 24 V AC/DC, amber, screw terminal, for front plate mounting, ATEX Zone 1-2: Intrinsic safety



product brand name	SIRIUS ACT
product designation	LED module
product type designation	3SU1

General technical data

product component	<ul style="list-style-type: none"> • diode • lamp transformer • light source • series resistor 	<ul style="list-style-type: none"> Yes No Yes No
insulation voltage rated value	320 V	
degree of pollution	3	
type of voltage of the operating voltage	AC/DC	
• for actuation	AC/DC	
surge voltage resistance rated value	4 kV	
consumed current maximum	20 mA	
protection class IP		
• of the enclosure	IP30	
• of the terminal	IP20	
shock resistance		
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms	
• for railway applications according to EN 61373	Category 1, Class B	
vibration resistance		
• according to IEC 60068-2-6	10 ... 500 Hz: 5g	
• for railway applications according to EN 61373	Category 1, Class B	
operating period typical	100 000 h	
reference code according to IEC 81346-2	P	
Substance Prohibitance (Date)	10/01/2014	
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8	
Net Weight	9 g	
operating voltage 1		
• at AC		
— at 50 Hz rated value	24 V	
— at 60 Hz rated value	24 V	
• at DC rated value	24 V	
Control circuit/ Control		
inrush current maximum	2 A	

Connections/ Terminals	
type of electrical connection	screw terminal
type of connectable conductor cross-sections	
• solid with core end processing	2x (0.5 ... 0.75 mm ²)
• solid without core end processing	2x (1.0 ... 1.5 mm ²)
• finely stranded with core end processing	2x (0.5 ... 1.5 mm ²)
• finely stranded without core end processing	2x (1.0 ... 1.5 mm ²)
• for AWG cables	2x (18 ... 14)
connectable conductor cross-section finely stranded with core end processing	0.5 ... 1.5 mm ²
tightening torque with screw-type terminals	0.8 ... 0.9 N·m
Lamp	
type of light source	LED
color of the light source	amber
light intensity	450 ... 1 120 mcd
ATEX	
certificate of suitability	
• ATEX	Yes; BVS 18 ATEX E 030 (IEC 60079-0:2017-12 Edition 7.0; EN 60079-11:2012; ATEX-product guideline 2014/34/EU)
• IECEx	Yes; IECEx BVS 18.0023 (IEC 60079-11:2011-06 Edition 6.0; IEC 60079-0:2017-12 Edition 7.0)
• for gas explosion protection for zone 1/2	Yes
explosion device group and category according to ATEX	II C
Ex-Marking according to ATEX	II 2G Ex ib IIC T4 Gb
equipment protection level (EPL) according to ATEX	Gb
maximum input voltage (Ui)	
• at AC	28.8 V
• at DC	28.8 V
type of protection according to ATEX	Ex ib
Ambient conditions	
ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted)
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO ₂ eq] total	0.787 kg
global warming potential [CO ₂ eq] during manufacturing	0.566 kg
global warming potential [CO ₂ eq] during operation	0.235 kg
global warming potential [CO ₂ eq] after end of life	-0.015 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Installation/ mounting/ dimensions	
fastening method	
• of modules and accessories	Front plate mounting
height	33.2 mm
width	9.8 mm
depth	29.4 mm
Approvals Certificates	
General Product Approval	For use in hazardous locations



EG-Konf.



IECEx

Test Certificates

Maritime application

other

Environment

[Confirmation](#)Siemens
EcoTech[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1BB00-1AA2>

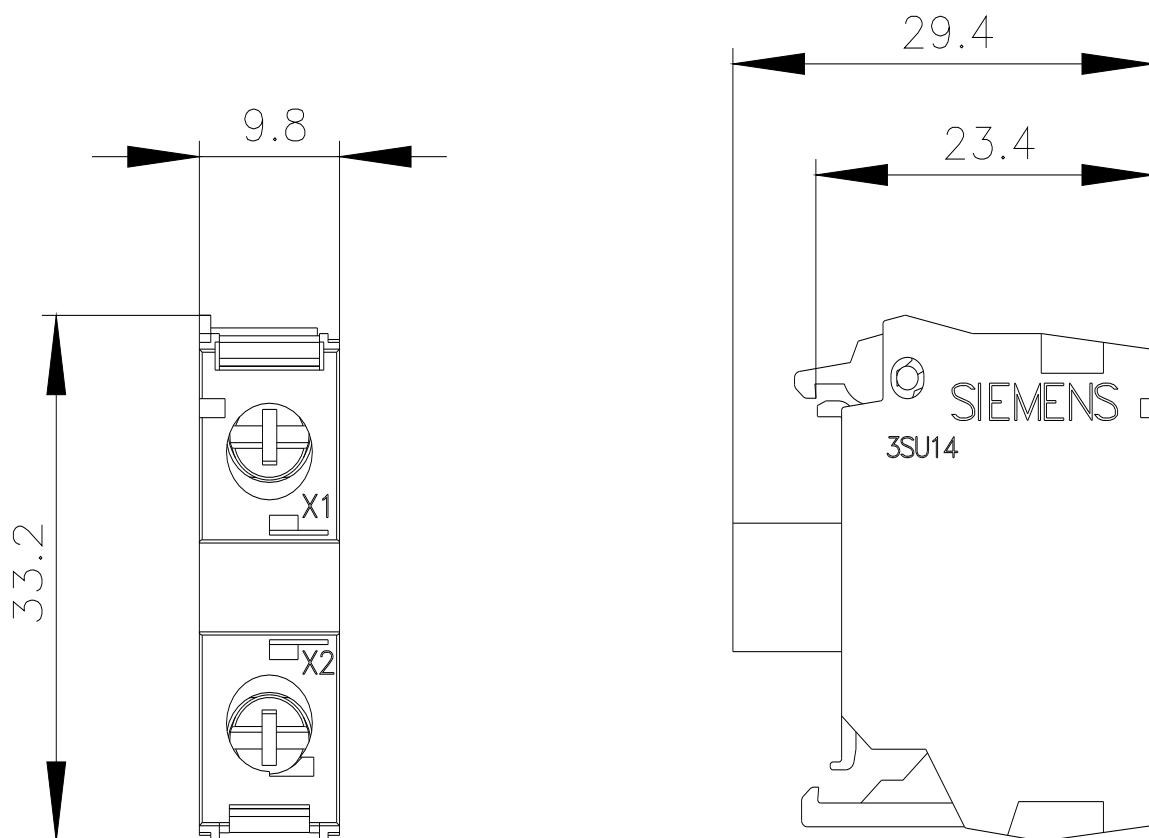
Cax online generator

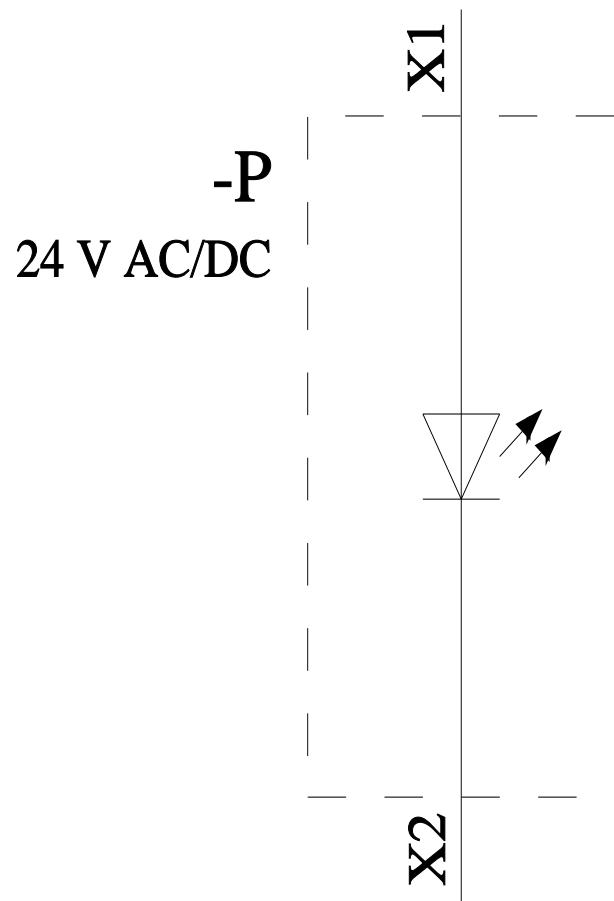
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1BB00-1AA2>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1BB00-1AA2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1BB00-1AA2&lang=en



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