SIEMENS

Data sheet 3SU1401-1EE20-2AA0

AS-Interface module, 2 safe inputs, 1 LED, red, 4-pole connector with screw terminal and 4-pole connector with spring-type terminal, for front plate mounting

Product brand name	SIRIUS ACT
Product designation	AS-Interface module
Product type designation	3SU1

General technical data	
• **(product function)**	2F-DI / 1 LED
Degree of pollution	3
Type of voltage	
• of the operating voltage	DC
• of the input voltage	DC
Consumed current	
• maximum	60 mA
Protection class IP	IP20
Shock resistance	
• for railway applications acc. to DIN EN 61373	Category 1, Class B
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	A
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K
Design of the slave type	2 F-DI + 1 LED

AS interface slave profile	S-7.B.F
((todo concept pref name))	1...F
Number of AS-i slaves	1
Protocol is supported ASIsafe (Safety at work) protocol	Yes
Operating voltage	
• rated value	26.5 ... 31.6 V
Operating voltage 1	
• at DC rated value	30 V

Communication/ Protocol

Protocol is supported	
• AS-interface protocol	Yes

Auxiliary circuit

Number of NO contacts for auxiliary contacts	0

Inputs/ Outputs

Number of digital inputs	
• safety-related	2
Number of digital outputs	1; For controlling the LED

Connections/Terminals

Type of electrical connection	Screw connection + spring-type terminal
Type of connectable conductor cross-sections	
• solid without core end processing	1x (0.2 ... 2.5 mm²)
• finely stranded with core end processing	1x (0.25 ... 2.5 mm²)
• finely stranded without core end processing	1x (0.2 ... 2.5 mm²)
• at AWG conductors	1x (30 ... 12)
Tightening torque	
• with screw-type terminals	0.5 ... 0.6 N·m

Lamp

Color of the light source	red

Product Function

Suitability for use	
• safety-related circuits	Yes

Safety related data

Safety Integrity Level (SIL) acc. to IEC 61508	3
SIL Claim Limit (subsystem) acc. to EN 62061	SILCL 3
Performance level (PL) acc. to EN ISO 13849-1	e
Safe failure fraction (SFF)	99 %
Average diagnostic coverage level (DCavg)	99 %
PFHD with high demand rate acc. to EN 62061	0.0000000045 1/h
PFDavg with low demand rate acc. to IEC 61508	0.000005

Category acc. to EN 954-1	4

Ambient conditions

Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +80 °C
Environmental category during operation acc. to IEC 60721	3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 ... 95 %, no condensation in operation permitted)

Installation/ mounting/ dimensions

• Mounting type of modules and accessories	Front plate mounting
• Mounting type of AS-i slaves	Front mounting
(height)	42 mm
Width	30 mm
Depth	66.9 mm

Certificates/approvals

General Product Approval		EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	
UL		RCM	Type Examination Certificate	EG-Konf.	Miscellaneous

Test Certificates	other	
Type Test Certificates/Test Report	ASi	Confirmation

Further information

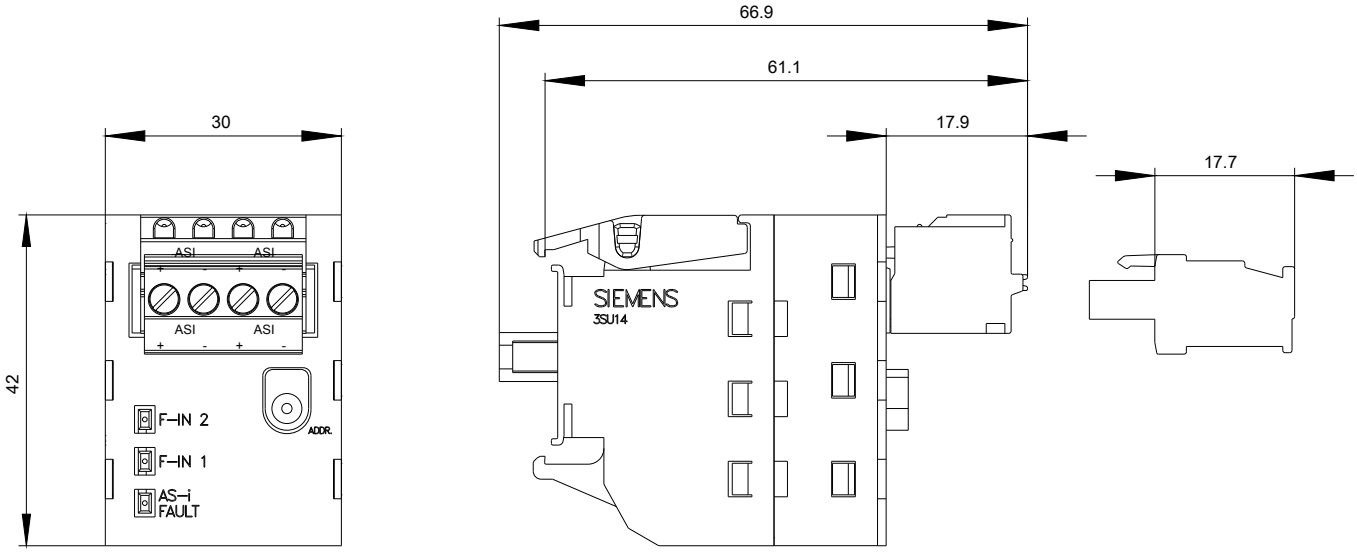
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

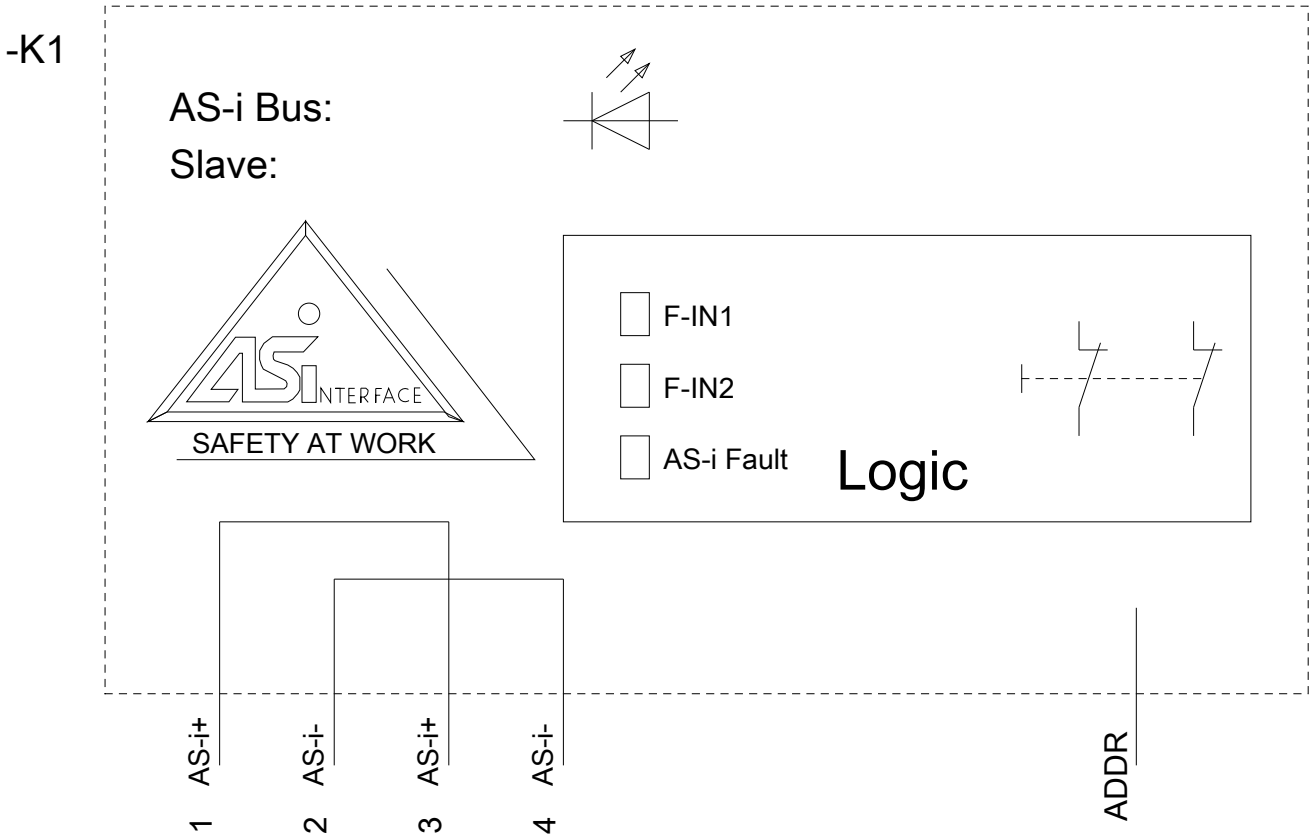
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1401-1EE20-2AA0

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1401-1EE20-2AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1401-1EE20-2AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1401-1EE20-2AA0&lang=en





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