

Siemens
EcoTech



AS-Interface module, 2 safe inputs, black, 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
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, clamping screw tightened
shock resistance for railway applications according to EN 61373	Category 1, Class B
vibration resistance for railway applications according to EN 61373	Category 1, Class B
reference code according to IEC 81346-2	K
Substance Prohibittance (Date)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Diboron trioxide - 1303-86-2
Net Weight	73 g
design of the device type	2 F-DI
AS-Interface device profile	S-0.B.F
ID1 code	0...F
number of AS-i devices	1
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
• ASIsafe (Safety at work) protocol	Yes
Inputs/ Outputs	
number of digital inputs	
• safety-related	2
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 mm ²)

- finely stranded with core end processing - finely stranded without core end processing - for AWG cables	1x (0.25 ... 2.5 mm²)		
	1x (0.2 ... 2.5 mm²)		
	1x (30 ... 12)		
tightening torque with screw-type terminals	0.5 ... 0.6 N·m		
Product Function			
suitability for use safety-related circuits	Yes		
Safety related data			
product function suitable for safety function	Yes		
safe state	off		
test wear-related service life necessary	No		
category according to EN 954-1	4		
average diagnostic coverage level (DCavg)	99 %		
IEC 62061			
SIL Claim Limit (subsystem) according to EN 62061	SIL CL 3		
Safety Integrity Level (SIL) according to IEC 62061	SIL 3		
PFHD with high demand rate according to IEC 62061	0 1/h		
ISO 13849			
performance level (PL) according to ISO 13849-1	PL e		
category according to ISO 13849-1	4		
device type according to ISO 13849-1	1		
IEC 61508			
Safety Integrity Level (SIL)			
according to IEC 61508	SIL 3		
safety device type according to IEC 61508-2	Type B		
PFHD with high demand rate according to IEC 61508	0 1/h		
PFDavg with low demand rate according to IEC 61508	5E-6		
Safe failure fraction (SFF)	99 %		
hardware fault tolerance according to IEC 61508	1		
T1 value of service life according to IEC 61508	20 a		
Ambient conditions			
ambient temperature			
- during operation - during storage	-25 ... +70 °C -40 ... +80 °C		
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 ... 95%, no condensation in operation permitted)		
Installation/ mounting/ dimensions			
fastening method			
- of modules and accessories - of the AS-i devices	Front plate mounting Frontplattenbefestigung		
height	42 mm		
width	30 mm		
depth	65.5 mm		
Approvals Certificates			
Environmental Product Declaration			
- global warming potential [CO2 eq] / during manufacturing - global warming potential [CO2 eq] / during operation - global warming potential [CO2 eq] / after end of life - global warming potential [CO2 eq] / total	0.566 kg 0.235 kg -0.0145 kg 0.787 kg		
Environment			
General Product Approval			
  Environmental Conformations   			
General Product Approval	EMV	Test Certificates	Maritime application



Type Test Certificates/Test Report



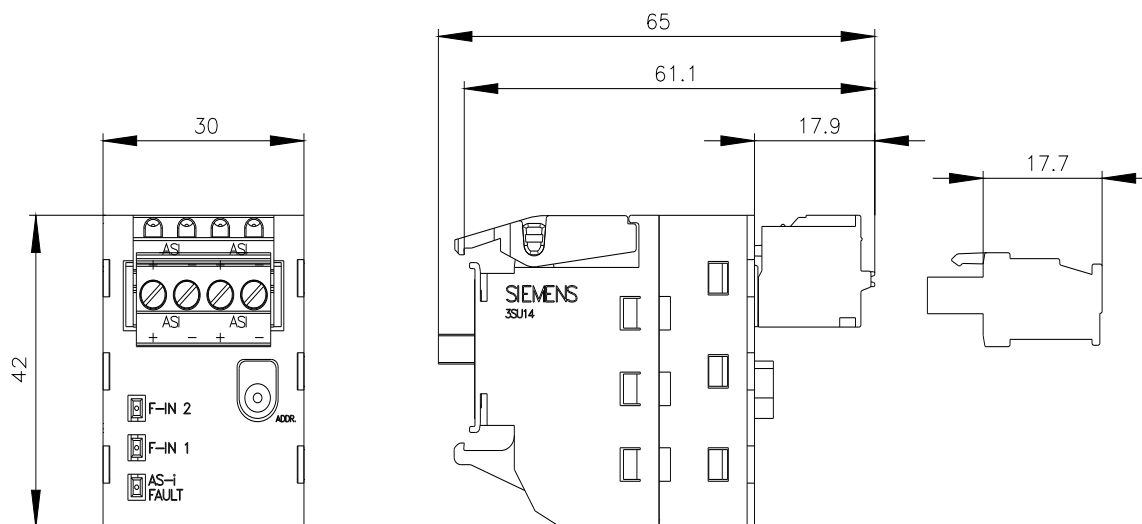
Industrial Communication



Confirmation



https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1400-1EA10-2AA0&lang=en



-K1

AS-i Bus:
Slave:

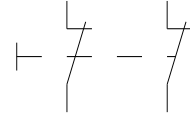


☐ F-IN1

☐ F-IN2

☐ AS-i Fault

Logic



1 ASI+

2 ASI-

3 ASI+

4 ASI-

ADDR

last modified:

11/21/2025