Data sheet

3SF1214-1LC05-1BA1



Basic switch Rounded plunger Metal enclosure, according to EN 50047 ASIsafe integrated AS-i status: 1:F-IN1, 2: F-IN2 3:AS-i/FAULT Snap-action contacts 2 NC/1 NO with M12 connector 4-pole Channel 1 to NC, Channel 2 to NC

product brand name product type designation product type designation soft the supplied basic switch of the supplied basic switch of the supplied basic switch vesself switch of the supplied basic switch vesself switch			
manufacturer's article number of the supplied basic switch suitability for use safety switch Yes General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-27 yibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 active principle repeat accuracy Substance Prohibitance (Date) Minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor ambient conditions ambient emperature during operation during storage during storage during vontacts for auxiliary contacts number of NC contacts for auxiliary contacts counting of the enclosure design of the housing material of the enclosure design of the housing according to standard Yes	product brand name	SIRIUS	
manufacturer's article number • of the supplied basic switch suitability for use safety switch Ceneral technical data product function positive opening yes insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value 0.8 kV protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation 20 N AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor adminimum adminimum actualing force in directions of actuation Ambient conditions ambient temperature • during operation • during storage design of the switching contact number of NC contacts for auxiliary contacts conting of the enclosure design of the housing material of the enclosure conting of the enclosure cathoolic dip coating design of the housing according to standard yes	product designation	Mechanical safety switches	
of the supplied basic switch suitability for use safety switch Yes General technical data product function positive opening Insulation voltage rated value degree of pollution dass 3 surge voltage resistance rated value 30 V degree of pollution dass 3 surge voltage resistance rated value 30.8 kV protection class IP IP660/P67 shock resistance according to IEC 60068-2-7 30g / 11 ms vibration resistance according to IEC 60068-2-8 30,35 mm/5g mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile DIC code F (hex, variable 0F) length of the sensor width of the sensor width of the sensor ambient temperature during operation during storage design of the switching contact mumber of NC contacts for auxiliary contacts cushods of the housing material of the enclosure design of the housing according to standard ves	product type designation	3SF12	
suitability for use safety switch General technical data product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile ID1 code IB1 ode ID1 code IEC 81346-2 IB39.7 mm width of the sensor width of the sensor 31 mm Ambient conditions ambient temperature during operation during storage during operation during storage design of the switching contact number of NC contacts for auxiliary contacts coating of the enclosure design of the housing material of the enclosure coating of the enclosure coating of the enclosure coating of the enclosure coating of the housing according to standard Yes	manufacturer's article number		
General technical data product function positive opening insulation voltage rated value degree of pollution surge voltage resistance rated value 0.8 kV protection class IP shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile ID1 code length of the sensor width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage design of the sousing material of the housing material of the enclosure design of the housing according to standard Yes	 of the supplied basic switch 	3SF1214-1LC05-1BA1	
product function positive opening product function positive opening insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP IP66/IP67 shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-6 outs for mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage design of the switching contact number of NC contacts for auxiliary contacts place in the surface of the content of the housing metal of the enclosure design of the enclosure cathodic dip coating design of the housing according to standard Yes	suitability for use safety switch	Yes	
insulation voltage rated value degree of pollution class 3 surge voltage resistance rated value protection class IP PEGGIPG7 shock resistance according to IEC 60068-2-27 30g / 11 ms vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 0.3701/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor width of the sensor 31 mm Ambient conditions ambient temperature during operation during storage 40 +80 °C design of the switching contact number of NC contacts for auxiliary contacts 1 can be contacted auxiliary contacts 1 can be contacted on the housing metal of the enclosure design of the enclosure design of the enclosure cathodic dip coating design of the housing according to standard Yes	General technical data		
degree of pollution class 3 surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-6 shock resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor 31 mm Ambient conditions ambient temperature oluring operation during storage design of the switching contact number of NC contacts for auxiliary contacts profile design of the housing metal coating of the enclosure design of the enclosure athodic dip coating design of the housing according to standard Yes	product function positive opening	Yes	
surge voltage resistance rated value protection class IP shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 0.35 mm/5g mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 03/01/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage 40 +80 °C design of the switching contact number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 0 Enclosure design of the housing material of the enclosure coating of the enclosure design of the housing according to standard Yes	insulation voltage rated value	30 V	
protection class IP shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-6 shock resistance according to IEC 81346-2 shock reference code according to IEC 81346-2 active principle repeat accuracy shock repeat accuracy shock resistance Prohibitance (Date) shock repeat accuracy shock repeat accuracy shock repeat accuracy shock resistance according to IEC 81346-2 shock resistance according to IEC 81346-2 shock resistance according to IEC 81346-2 shock resistance according to IEC 8008-2-6 shock resistance according to IEC 60068-2-6 shock resistance according to IEC 60068-2- shock resistance according	degree of pollution	class 3	
shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor ambient conditions ambient temperature during operation during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts design of the housing material of the enclosure design of the enclosure cathodic dip coating design of the housing material of the enclosure cathodic dip coating Yes	surge voltage resistance rated value	0.8 kV	
vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 0.3/01/2017 minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor width of the sensor 31 mm Ambient conditions ambient temperature during operation during storage design of the switching contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts Dlock, narrow material of the enclosure design of the housing material of the enclosure cathodic dip coating design of the housing according to standard Yes	protection class IP	IP66/IP67	
mechanical service life (operating cycles) typical reference code according to IEC 81346-2 B active principle repeat accuracy 0.1 mm Substance Prohibitance (Date) 03/01/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile 1D1 code F (hex, variable 0F) length of the sensor 31 mm width of the sensor 31 mm Ambient conditions ambient temperature during operation during storage design of the switching contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts design of the housing material of the enclosure design of the enclosure design of the housing according to standard 15 000 000 15 000 000 000 000 000 000 000 000 000 00	shock resistance according to IEC 60068-2-27	30g / 11 ms	
reference code according to IEC 81346-2 active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 03/01/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile 0.B.F ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +60 °C • during storage -40 +80 °C design of the switching contact mechanical number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 0 Enclosure design of the housing block, narrow material of the enclosure cathodic dip coating design of the housing according to standard Yes	vibration resistance according to IEC 60068-2-6	0.35 mm/5g	
active principle mechanical repeat accuracy 0.1 mm Substance Prohibitance (Date) 03/01/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile 0.8.F ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +60 °C • during storage -40 +80 °C design of the switching contact mechanical number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 0 Enclosure design of the housing block, narrow material of the enclosure cathodic dip coating design of the housing according to standard Yes	mechanical service life (operating cycles) typical	15 000 000	
repeat accuracy 0.1 mm Substance Prohibitance (Date) 03/01/2017 minimum actuating force in directions of actuation 20 N AS-Interface slave profile 0.B.F ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation -25 +60 °C • during storage -40 +80 °C design of the switching contact mechanical number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 0 Enclosure design of the housing block, narrow material of the enclosure cathodic dip coating design of the housing according to standard Yes	reference code according to IEC 81346-2	В	
Substance Prohibitance (Date) minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Enclosure design of the enclosure coating of the enclosure metal coating of the housing according to standard Yes	active principle	mechanical	
minimum actuating force in directions of actuation AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage • during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts block, narrow material of the enclosure coating of the enclosure design of the housing according to standard Yes	repeat accuracy	0.1 mm	
AS-Interface slave profile ID1 code F (hex, variable 0F) length of the sensor 89.7 mm width of the sensor 31 mm Ambient conditions ambient temperature • during operation • during storage • during of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Enclosure design of the housing material of the enclosure coating of the enclosure design of the housing according to standard Yes	Substance Prohibitance (Date)	03/01/2017	
ID1 code F (hex, variable 0F) length of the sensor	minimum actuating force in directions of actuation	20 N	
length of the sensor width of the sensor Ambient conditions ambient temperature • during operation • during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts for auxiliary contacts block, narrow material of the enclosure coating of the housing according to standard 89.7 mm 90 °C 40 +80 °C 40 +80 °C 90 °C 90 °C 40 +80 °C 90 °C	AS-Interface slave profile	0.B.F	
width of the sensor Ambient conditions ambient temperature • during operation • during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts block, narrow material of the enclosure coating of the housing according to standard 31 mm 31 mm 31 mm 32 mm 40 °C 40 +80 °C 40	ID1 code	F (hex, variable 0F)	
Ambient conditions ambient temperature • during operation • during storage • during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts costing of the housing material of the enclosure coating of the housing according to standard public in +60 °C -40 +80 °C mechanical mechanical 0 Enclosure 0 Enclosure design of the housing block, narrow metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	length of the sensor	89.7 mm	
ambient temperature	width of the sensor	31 mm	
 during operation during storage 40 +80 °C design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Enclosure design of the housing material of the enclosure coating of the enclosure cathodic dip coating design of the housing according to standard Yes 	Ambient conditions		
● during storage design of the switching contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts process number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts block, narrow material of the housing material of the enclosure coating of the enclosure design of the housing according to standard yes	ambient temperature		
design of the switching contact number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 0 Enclosure design of the housing block, narrow material of the enclosure coating of the enclosure design of the housing according to standard Yes	 during operation 	-25 +60 °C	
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 Enclosure design of the housing block, narrow material of the enclosure metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	during storage	-40 +80 °C	
number of NO contacts for auxiliary contacts Enclosure design of the housing block, narrow material of the enclosure metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	design of the switching contact	mechanical	
Enclosure design of the housing block, narrow material of the enclosure metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	number of NC contacts for auxiliary contacts	2	
design of the housing block, narrow material of the enclosure metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	number of NO contacts for auxiliary contacts	0	
material of the enclosure metal coating of the enclosure cathodic dip coating design of the housing according to standard Yes	Enclosure		
coating of the enclosure cathodic dip coating design of the housing according to standard Yes	design of the housing	block, narrow	
design of the housing according to standard Yes	material of the enclosure	metal	
	coating of the enclosure	cathodic dip coating	
Drive Head	design of the housing according to standard	Yes	
	Drive Head		
design of the actuating element Other, without, ASi_basic switch with plug	design of the actuating element	Other, without, ASi_basic switch with plug	
design of the switching function positive opening	design of the switching function		
circuit principle snap-action contacts	circuit principle		

number of switching contacts safety-related	2			
design of plug-in connection	lesign of plug-in connection		M12 plug, 4-pole: Pin 1 = ASI+ , Pin 2 = not assigned, Pin 3= ASI-, Pin 4 = not assigned	
Installation/ mounting/ dimensions				
mounting position		any		
fastening method		screw fixing		
Connections/ Terminals				
type of electrical connection		M12 plug, fixed, 4-pole		
Supply voltage				
type of voltage of the supply voltage of the optional LED display		DC		
supply voltage				
• of LED		24 V		
design of the interface for safety-related communication		ASIsafe via M12 plug		
Certificates/ approvals				
General Product Approval	Declaration of	Conformity	Test Certificates	









Type Test Certificates/Test Report

Type Test Certificates/Test Report

other

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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=3SF1214-1LC05-1BA1

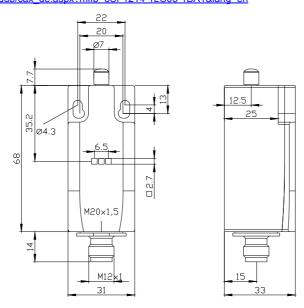
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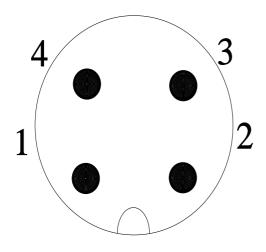
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SF1214-1LC05-1BA1}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3SF1214-1LC05-1BA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SF1214-1LC05-1BA1&lang=en





1	\longrightarrow	ASI +
2	\longrightarrow	n. c.
3	\longrightarrow	ASI -
4	\rightarrow	n. c.

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