SIEMENS

Data sheet 3SE6415-1AB01



RFID safety switch with tumbler, plastic, open-circuit principle, actuator monitoring, 24 V DC, with auxiliary release, IP69, locking force 1150 N, family-coded, diagnostic output, M12 plug 8-pole, 3 LEDs for display of the operating states, 3 directions of actuation, latching force with turnstile adjustable: 25 N or 50 N. hygienic design. actuator 3SE6410-1AC01 to be ordered separately.

product brand name	SIRIUS		
product category	Non-contact safety switch		
product designation	RFID safety switch with tumbler		
design of the product	rectangular sensor unit		
product type designation	3SE64		
Product Function			
product function			
positive opening	No		
control function for downstream devices	No		
cross-circuit/short-circuit recognition	Yes		
suitability for use			
safety-related circuits	Yes		
General technical data			
product feature	family-coded, catch 25N/50N		
product feature suitable for series connection	Yes		
locking force	1 500 N		
according to EN ISO 14119	1 150 N		
locking mechanism design	open-circuit principle		
design of the RFID coding	universal coding		
insulation voltage rated value	32 V		
degree of pollution according to EN 60664-1	3		
overvoltage category	Class III		
surge voltage resistance rated value	0.8 kV		
no-load current rated value	100 mA		
protection class IP	IP66 in accordance with EN 60529 IP67 in accordance with EN 60529 IP69 in accordance with EN 60529		
shock resistance			
• according to IEC 60068-2-27	30g / 11 ms		
vibration resistance according to IEC 60068-2-6	10 150 Hz, amplitude 0.35 mm		
design of the switching function	positive switching		
switching frequency	0.5 Hz		
mechanical service life (operating cycles) typical	1 000 000		
• note	when used as door stop: \geq 50,000 switching cycles (door masses \leq 5 kg and actuating speed \leq 0.5 m/s)		
relative ON period [%] of magnet coil	100 %		
reference code according to IEC 81346-2	В		
Substance Prohibitance (Date)	07/01/2006		
Sensor			
height of the sensor	35 mm		
length of the sensor	120 mm		
width of the sensor	87.5 mm		

Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	2 000 111
during operation	0 60 °C
during operation during storage and transport	-10 +90 °C
operating resource protection class according to IEC 61140	-10 +90 C
relative humidity	
· · · · · · · · · · · · · · · · · · ·	93 %
during operation during operation maximum note	
during operation maximum note Control circuit/ Control	non-condensing, non-icing
	100 mA
current consumption of magnet coil rated value	100 mA
locked-rotor current peak of magnet coil	250 mA
duration of locked-rotor current peak	200 ms
Main circuit	24 \
operating voltage rated value	24 V
operational current rated value	250 mA
Enclosure	assaint design
design of the housing	special design
material of the enclosure	plastic, fiberglass reinforced thermoplast, self-extinguishing
Actuator	
Des to the second secon	V
Product equipment auxiliary release of guard locking	Yes
product feature latching	Yes
detent force adjustable 1	25 N
detent force adjustable 2	50 N
angular offset between guard locking and actuator maximum	2°
Display	
product function status display	Yes
display version as status display by LED	Yes 3 LEDs
Contact	
circuit principle	solenoid-locked (open-circuit principle)
operating distance	solenoia-lockea (open-circuit principie) 2 mm
assured operating distance OFF	2 mm
assured operating distance OFF assured operating distance ON	20 mm 1 mm
Installation/ mounting/ dimensions	
fastening method	screw fixing
design of the thread of the screw for securing the	screw fixing 2x M6
equipment	
tightening torque of fixing screw minimum	6 N·m
tightening torque of fixing screw maximum	7 N·m
Connections/ Terminals	
type of electrical connection	M12 plug, 8-pole, A-coded
wire length maximum	200 m
contact assignment	
of socket 1 at PIN 1	A1 supply voltage Ub
of socket 1 at PIN 2	X1 safety input 1
of socket 1 at PIN 3	A2 GND
of socket 1 at PIN 4	OSSD1 safety output 1
of socket 1 at PIN 5	OUT diagnostic output
• of the bushing 1 at PIN 6	X2 safety input 2
• of the bushing 1 at PIN 7	OSSD2 safety output 2
of the bushing 1 at PIN 8	IN magnet controller
Supply voltage	
type of voltage of the supply voltage	DC
supply voltage rated value	24 V
supply voltage	26.4 20.4 V
fuse protection type for external auxiliary power supply required	2 A gG
Inputs/ Outputs	
input voltage at digital input	

* for signal <1 × a IDC * safety-related digital input for signal <1 × typical * for signaling function * safety-related design of the contactices switching element safety-related object of signal element safety related object of signal element safety-related object safety-related object of signal element safety-related element safety-related object safety-related object safety-related object safety-relat	• with signal <0> at DC	-3 +5 V			
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Declaration of Conformity

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=3SE6415-1AB01

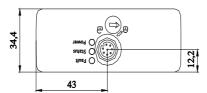
Cax online generator

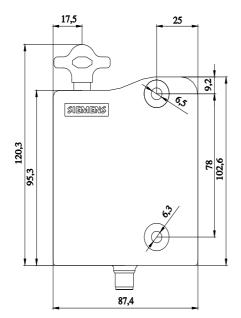
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SE6415-1AB01

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

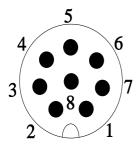
https://support.industry.siemens.com/cs/ww/en/ps/3SE6415-1AB01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SE6415-1AB01&lang=en









1	WH = White	\rightarrow	A 1	supply voltage Ue
2	BN = Brown	\rightarrow	X 1	safety input 1
3	GN = Green	\rightarrow	A2	GND
4	YE = Yellow	\rightarrow	OSSD1	safety output 1
5	GY = Grey	\rightarrow	OUT	diagnostics output
6	PK = Pink	\rightarrow	X2	safety input 2
7	BU = Blue	\rightarrow	OSSD2	safety output 2
8	RD = Red	\rightarrow	IN	solenoid control

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