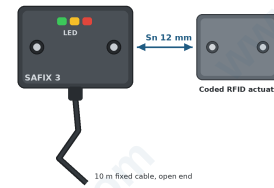


SAFIX Set I3-A-10M

RFID safety sensor with coded actuator | PL e / Cat. 4 | 2 x OSSD | IP69K



PL e / Cat. 4 | SIL 3 | 75 ms response | 24 V DC | Up to 30 in series IP69K / ECOLAB

Illustrative representation drawn to published dimensions - not a photograph.

SAFIX Set I3-A-10M

RFID Safety Sensor with Coded Actuator — PL e / Cat. 4

SSP Safety System Products • Item no. 1019330 • prev.
SP-E-76-000-46

The SAFIX Set I3-A-10M is a non-contact RFID safety sensor for monitoring the position of movable guards such as sliding, hinged and removable doors, flaps and covers. It reads an individually coded actuator, giving high level coding to EN ISO 14119 and strong protection against defeat. Two OSSD outputs connect directly to standard safety relays and controllers, and up to 30 sensors can be wired in series without loss of safety performance. The compact 36 x 13 x 26 mm housing with 22 mm hole spacing, IP69K protection and ECOLAB approval suits tight installations and washdown environments; a three-colour LED and a separate diagnostic output support fast fault finding.

Typical applications: machine guard doors and safety flaps, packaging and filling lines, food and beverage processing, pharmaceutical and hygiene-critical equipment, robot cells, conveyor access gates and washdown areas.

General / Identification	
Type designation	SAFIX Set I3-A-10M
Product type	RFID safety sensor (non-contact interlocking device with coded actuator)
Item number	1019330
Item number (previous)	SP-E-76-000-46
Coding level	Individually coded (high level coding to EN ISO 14119)
Reset behaviour	Automatic reset
EDM	Integrated EDM / start input
Service life T_M (EN ISO 13849-1)	20 years
Safety Performance	
Performance Level (EN ISO 13849-1)	PL e
Category (EN ISO 13849-1:2015)	Cat. 4
SIL (IEC 62061)	SIL 3, SIL CL3
PFH _d (EN ISO 13849)	2.24×10^{-9}
Response / risk time	75 ms
Series connection	Up to 30 sensors
Electrical	
Supply voltage U_b	24 V DC $\pm 10\%$
Output type	2 x OSSD (semiconductor safety outputs)
No-load current I_0	10 mA (not activated) / 30 mA (activated)
Utilisation category	DC-12 / DC-13
Rated insulation voltage U_i	50 V
Rated impulse withstand voltage U_{imp}	1 kV
Overvoltage category	II
Pollution degree	2
Electrical service life (nominal load)	20 years
Diagnostics	Diagnostic output plus 3-colour LED indication

Connections	
Connection	10 m fixed cable, open end
Core identification	According to DIN 47100
Supply	BN = U_b BU = GND
Safety inputs	WH = input 1 PK = input 2
Safety outputs (OSSD)	BK = output 1 VT = output 2
Diagnostics / EDM	GY = diagnostic output OG = EDM / start input

Switching Characteristics	
Switching distance S_n	12 mm
Assured switching distance ON S_{ao}	8 mm
Assured switching distance OFF S_{ar}	18 mm
Hysteresis	2 mm
Repeat accuracy R	< 0.5 mm
Actuation directions	Front and both sides

Mechanical & Environmental	
Dimensions (W x L x H)	36 x 13 x 26 mm
Mounting hole spacing	22 mm
Mounting	M4 countersunk screws
Tightening torque (mounting nut)	0.7 Nm
Housing material	PBT
Degree of protection	IP69K
Operating temperature	-25 ... +70 °C
Storage temperature	-25 ... +70 °C
Shock resistance	30 g / 11 ms
Vibration resistance	Amplitude 1 mm, 10 ... 55 Hz

Compliance & Standards	
Approvals	TÜV SÜD, CE
Coding standard	EN ISO 14119
Functional safety standards	EN ISO 13849-1, IEC 62061
Hygiene approval	ECOLAB

Specifications are taken from the manufacturer's published data and are subject to change without notice. Confirm against the current manufacturer manual before rated or safety-critical use. All brand names, trademarks, logos and part numbers are the property of their respective owners and are used here for identification and reference only. We are not an authorised distributor or agent of the manufacturer unless expressly stated otherwise.