

Sense 12 Magnetic non-contact safety switches

Magnetic Actuation

Switching Tolerance up to 10mm



Cylindrical fitting suitable for all industry applications.

Easy to install - M30 threaded body - easy to set

Wide 10mm sensing

Suitable for the harsh environments of Food processing and packaging

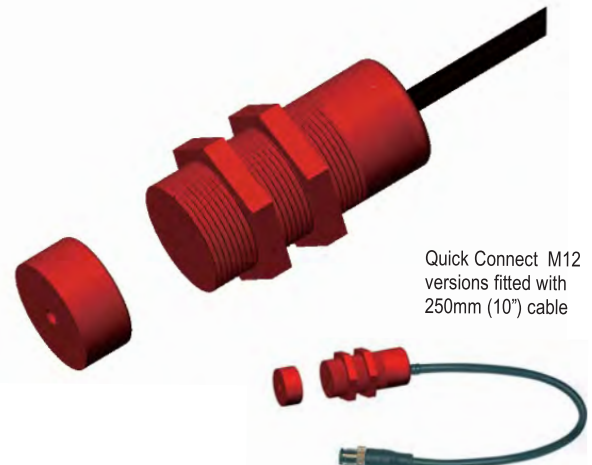
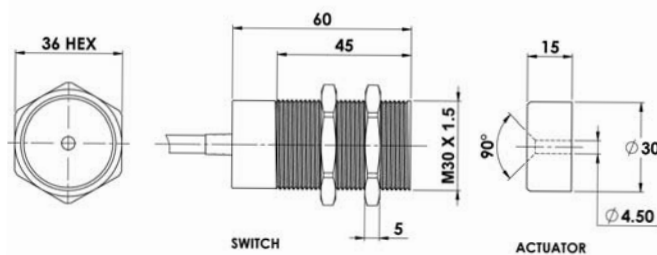
Red Polyester housing

UP to: PLe ISO 13849-1 SIL3 EN 62061 Cat. 4 EN 954-1

2NC 1NO circuits

Quick connect versions.

Will operate with most Safety Relays



Quick Connect M12 versions fitted with 250mm (10") cable

Standards	EN1088 IEC 947-5-3 EN 60204-1 ISO 13849-1 EN62061 EN 954-1 UL508
Safety Classification and Reliability Data:	
Switching Reliability	3.3 x 10 ⁶ operations at 100mA load up to Category 4 with Safety Relay
EN 954-1	up to PLe depending upon system architecture
ISO 13849-1	up to SIL3 depending upon system architecture
EN 62061	
Safety Data - Annual Usage	8 cycles per hour / 24 hours per day / 365 days
PFHd	2.52 x 10 ⁻⁸
Proof Test Interval (Life)	47 years
MTTFd	470 years
Safety Channel 1 NC	24V.dc 0.5 A Max. Rating
Safety Channel 2 NC	24V.dc 0.5 A Max. Rating
Safety Channel 3 NO	24V.dc 0.2 A Max. Rating
Minimum switched current	10V. dc 1mA
Delectric withstand	250V.ac
Insulation Resistance	100 Mohms
Recommended setting gap	5mm
Switching Distance:	Sao 10mm Close
(Target to target)	Sar 20mm Open
Tolerance to misalignment	4mm in any direction from 4mm setting gap
Switching frequency	1.0 Hz maximum
Approach speed	200mm/m. to 1000mm/s.
Body Material	RPR Plastic
Temperature Range	-25 / 80C
Enclosure Protection	IP69K IP67
Shock Resistance	IEC 68-2-27 11ms 30g
Vibration Resistance	IEC 68-2-6 10-55 Hz. 1mm
Cable Type	PVC 6 core 6mm O.D.
Mounting Position	Any

For all ABB Jokab Safety switches the NC circuits are closed when the guard is closed and the actuator present

Sense 12

2TLA050080R4100	Sense 12, 2m cable, 2NC/1NO
2TLA050080R5100	Sense 12, 5m cable, 2NC/1NO
2TLA050080R6100	Sense 12, 10m cable, 2NC/1NO
2TLA050080R2100	Sense 12, QC cable, 2NC/1NO

Quick Connect (QC)	Standard Lead Colour	Circuit (Actuator Present)
M12 8 Way Male Plug Pin view from switch		
4	Yellow	NO
6	Green	NO
7	Black	NC2
1	White	NC2
2	Red	NC1
3	Blue	NC1

