

Safety door lock



- Multiple contacts available
- Plastic, metal material can be selected, four mounting directions of the head can be selected.
- Locking force of 1300N, excellent tensile resistance



Apperance		
Standard	EN60947-5-1、GB14048.5	
Degree of protection	IP67	
Material	PA66 flame retardant	
usage count	Machiane	> 1 million times
	Electric	more than 150,000 times
Type	AC-15	DC-13
Operating voltage	240V	24V
Operating current	3A	2A
Contact resistance	less than 25mΩ	
Rated insulation voltage	300V	
Protection against electric shock	Class II (double insulation)	
Pulse voltage	2.5KV	
Insulation resistance	less than 100mΩ (under 500VDC)	
Short circuit protection device	10A, 250V requires quick-blow fuse	
Vibration resistance	10-55HZ double amplitude 1.5mm	
Shock proof	Durable	1000m/s
	Misoperation	300m/s
Conditional short circuit current	100A	
Contact pitch	more than 2x2mm	
Forced breaking force	Standard type: minimum 60N; strong tension type: minimum 80N	
Force break line pretravel	more than 10mm	
Operating speed	0.1m ~ 0.5m/s	
Allowable operating frequency	Up to 20 operations/minute	
Pollution degree (use environment)	3 (EN60947-5-1)	
Ambient temperature	-10℃ ~ + 70℃ without freezing	
Use environment	85%RH	
Model NO.	AR1 series	

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vision
- Code Readers
- Vibration
- Temperature
- Accessories

Guidance

Safety door lock
AR Series

Selection coding rules

AR ① - ② ③ ④

NO.	Classification	Explanation of model numbers
①	Installation method	1: Horizontal installation 2: Vertical installation 3: Adjustable mount (horizontal) 4: Adjustable mount (horizontal/vertical)
②	Conduit port/connector size	P: Pg13.5 (terminal type) M: M20 (terminal type) 2M: Standard lead wire type(2m) 2ME: Bending resistant lead wire lead type(2m)
③	Built-in switch	A: 1NC/1NO (slow motion) B: 2NC (slow motion) C: 2NC/1NO (slow motion) D: 3NC (slow motion)
④	Head installation direction	P: Choice of four mounting orientations (delivered front mounting) / plastic U: Choice of four mounting orientations (delivered front mounting) / metal



Apperance			
Standard	EN60947-5-1, GB14048.5		
Degree of protection	IP67		
Material	PA66 Flame retardant		
Usage count	Machiane	More than 1 million times	
	Electric	More than 150,000 times	
Type	AC-15		DC-13
Operating voltage	240V		24V
Operating current	3A		2A
Contact resistanc	Less than 25mΩ		
Rated insulation voltage	300V		
Protection against electric shock	Class II (double insulation)		
Pulse voltage	2.5KV		
Insulation resistance	More than100mΩ		
Short circuit protection device	10A, 250V Requires quick-blow fuse		
Vibration resistance	10-55HZ Double amplitude 1.5mm		
Shock proof	Durable	1000m/s ²	
	Misoperation	300m/s ²	
Conditional short circuit current	100A		
Contact pitch	More than 2x2mm		
Forced breaking force	Minimum 60n		
Force break line pretravel	More than 10mm		
Operating speed	0.1m ~ 0.5m/s		
Allowable operating frequency	Up to 30 operations/minute		
Pollution degree (use environment)	3 (EN60947-5-1)		
Ambient temperature	-10°C ~ + 50°C without freezing		
Use environment	Under 95%rh		
Model NO.	AR2 Series		

- Fiber Optic
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- Accessories

Guidance

Safety door lock
AR Series

Selection coding rules

AR ① - ② ③ ④ ⑤ ⑥ ⑦ ⑧

NO.	Classification	Explantion of model numbers
①	Installation method	1: Horizontal installation 2: Vertical installation
②	Conduit port/connector size	3: Adjustable mount (horizontal) 4: Adjustable mount (horizontal/vertical)
③	Switch contacts (door opening and closing detection test switch + lock monitoring switch)	P:Pg13.5 (terminal type) M:M20 (terminal type)
		A: 1NC/NO Slow contact + 1NC/1NO Slow contact
		B: 1NC/1NO Slow contact +2NC Slow contact
		C: 2NC Slow contact + 1NC/NO Slow contact
		D: 2NC Slow contact + 2NC Slow contact
		E: 2NC/1NO Slow contact + 1NC/NO Slow contact

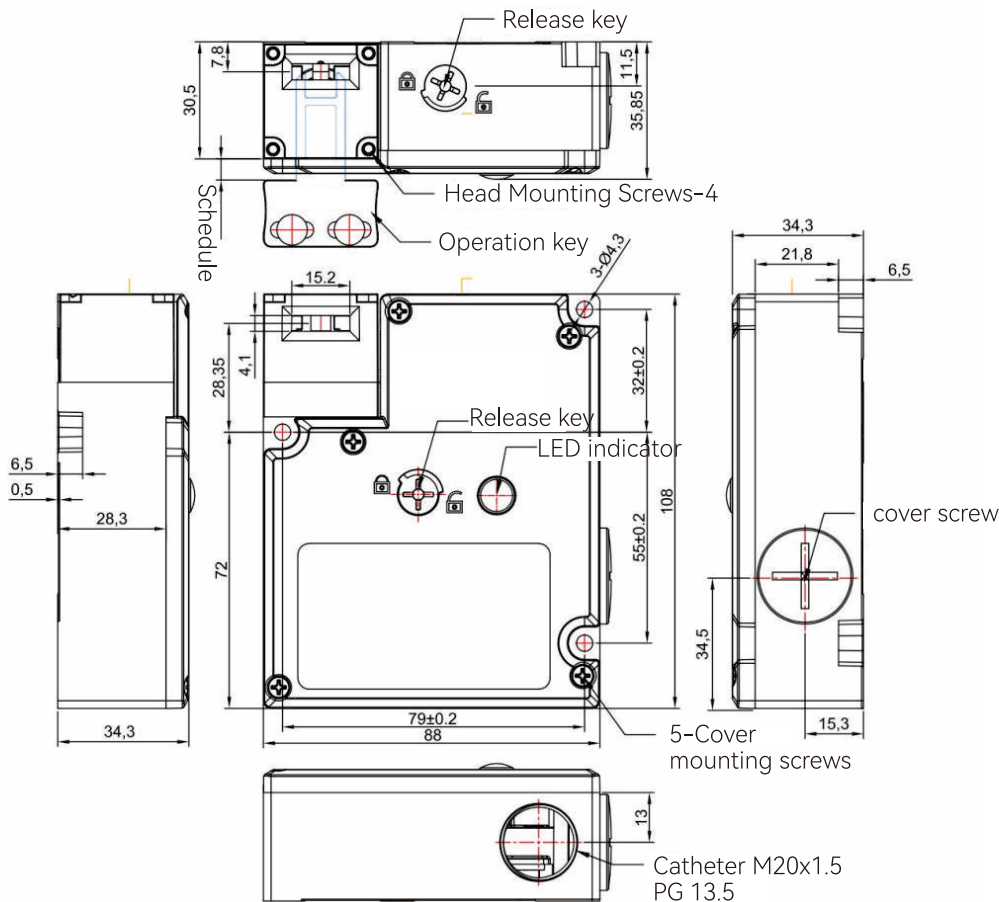
Safety door lock

Selection coding rules

NO.	Classification	Explanation of model numbers
③	Switch contacts (door opening and closing detection test switch + lock monitoring switch)	F: 2NC/1NO Slow contact + 2NC Slow contact G: 2NC/1NO Slow contact + 2NC/NO Slow contact H: 3NC Slow contact + 1NC/NO Slow contact I: 3NC Slow contact + 2NC Slow contact J: 3NC Slow contact + 3NC Slow contact K: 3NC Slow contact + 2NC/1NO Slow contact L: 2NC/1NO Slow contact + 3NC Slow contact
④	Head installation direction	P: Choice of four mounting orientations (delivered front mounting) / plastic U: Choice of four mounting orientations (delivered front mounting) / metal
⑤	Door lock/release method	A: Mechanical lock/DC24V electromagnetic release B: Mechanical lock/AC110V electromagnetic release G: DC24V electromagnetic lock/mechanical release H: AC110V electromagnetic lock/mechanical release
⑥	Release key position	F: Top S: Front
⑦	Indicator light	Blank: standard DC24V (green LED indicator) B: DC24V (orange LED indicator light)
⑧	Release key type	Blank: Standard type (resin) H: Special release key (resin, release key included)

Unit: mm

Dimensions





Appearance		
Standard	EN60947-5-1, GB14048.5	
Degree of protection	IP67	
Material	PA66 Flame retardant	
Usage count	Machiane	More than 1 million times
	Electric	More than 500,000 times (AC240V 3A, resistive load)
Type	AC-15	DC-13
Operating voltage	240V	24V
Operating current	3A	2A
Contact resistanc	Less than 25mΩ	
Rated open current	10A	
Rated insulation voltage	300V	
Protection against electric shock	Class II (double insulation)	
Pulse voltage	2.5KV	
Insulation resistance	More than 100mω	
Short circuit protection device	10A, 250V Requires quick-blow fuse	
Vibration resistance	10-55HZ Double amplitude 1.5mm	
Shock proof	Durable	1000m/s ²
	Misoperation	300m/s ²
Conditional short circuit current	100A	
Contact pitch	More than 2x2mm	
Forced breaking force	Min 60n	
Force break line pretravel	More than 10mm	
Operating speed	0.1m ~ 0.5m/s	
Allowable operating frequency	Up to 30 operations/minute	
Pull strength when locked	1300N	
Pollution degree (use environment)	3 (EN60947-5-1)	
Ambient temperature	-10°C ~ + 50°C without freezing	
Use environment	Less than 95%rh	
Model NO.	AR3 Series	

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Guidance

Safety door lock
AR Series

Selection coding rules

AR ① - ② ③ ④ ⑤

NO.	Classification	Explantion of model numbers
①	Installation method	1: Horizontal installation 2: Vertical installation 3: Adjustable mount (horizontal) 4: Adjustable mount (horizontal/vertical)
②	Conduit port/connector size	P: Pg 13.5 terminal type M: M20 terminal type
③	Switch contacts (door opening and closing detectiontest switch + lock monitoring switch	A: 1NC Slow contact + 1NO Slow contact
		B: 2NC Slow contact + 1NC/NO Slow contact
		C: 1NC Slow contact + 1NC Slow contact

Safety door lock

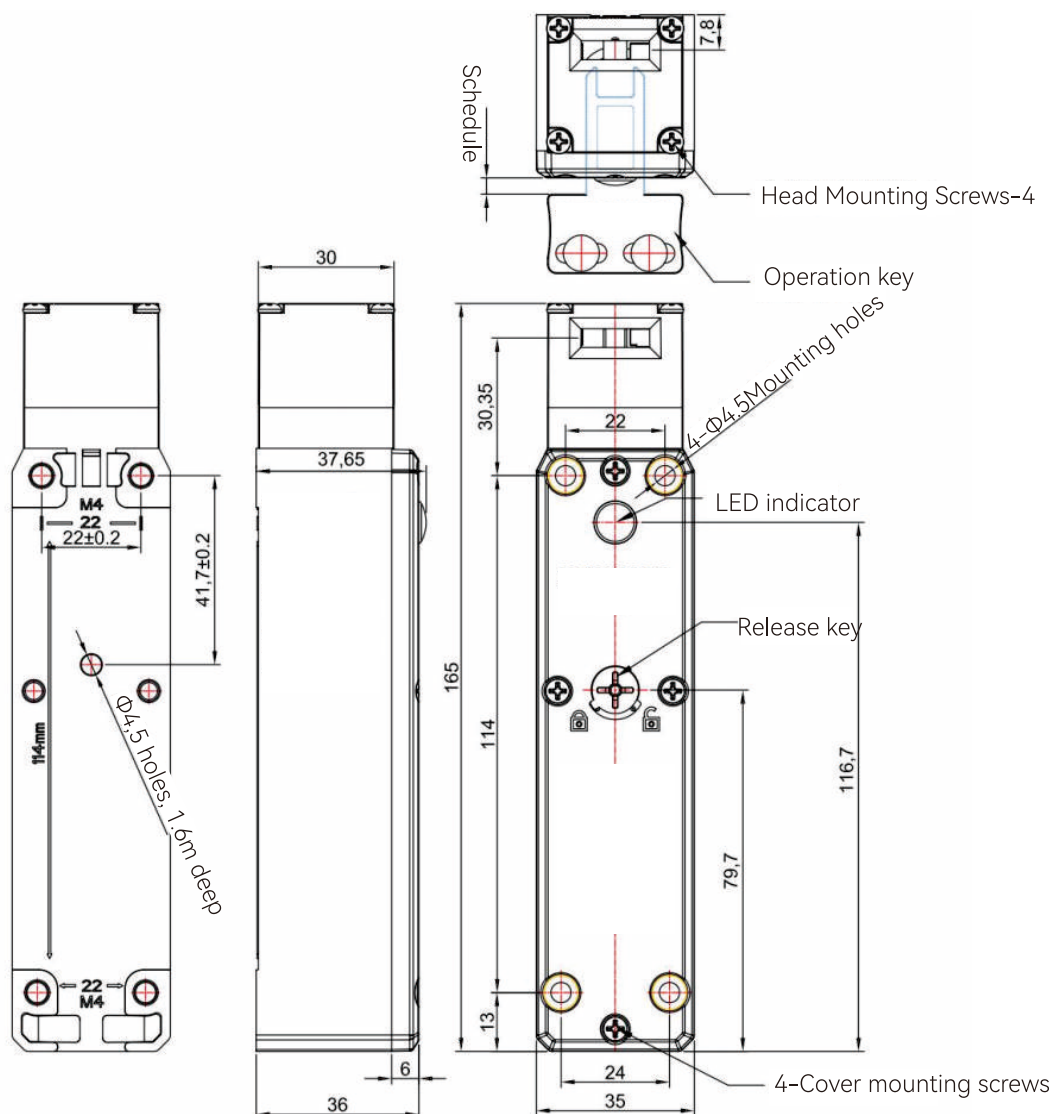
Unit: mm

NO.	Classification	Explanation of model numbers
③	Switch contacts (door opening and closing detection test switch + lock monitoring switch)	D: 1NC Slow contact + 2NC Slow contact E: 2NC Slow contact + 2NO Slow contact F: 1NC Slow contact + 1NC/NO Slow contact G: 2NC Slow contact + 2NC Slow contact
④	Head installation direction	P: Choice of four mounting orientations (delivered front mounting) / plastic U: Choice of four mounting orientations (delivered front mounting) / metal
⑤	Door lock/release method	A: Mechanical lock/DC24V electromagnetic release B: Mechanical lock/AC110V electromagnetic release G: DC24V electromagnetic lock/mechanical release H: AC110V electromagnetic lock/mechanical release

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Dimensions

Unit: mm



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