

Технические характеристики

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MC36C series

Compact safety magnetic sensors

The MC36C are encoded safety magnetic sensors with compact housing used to monitor the position of hinged, sliding or removable guards of industrial applications.

Carlo Gavazzi safety sensors stop or disconnect the dangerous motions, if the mobile protections are opened or displaced. They are suitable for safety gates applications up to safety category 4, PL e according to EN ISO 13849-1 with suitable logic safety module.

The MC36C sensors are the ideal solution in applications where the installation space is limited.



Highest performance in a small size

The safety magnetic sensors together with the magnetic actuator are particularly suitable to monitor protections of the safety gates that allow the entry to machines with dangerous movements, mainly in environment with strong presence of dust and dirtiness.

Customizable

- The sensors are available with left or right exit, integrated cable or M8 connection and optionally LED indicator
- 2 normally open or 1 normally open + 1 normally closed contacts (with open guard)

Standards compliance

- Up to Cat. 4 PL e in accordance with EN ISO 13849-1

High performance

- Assured switching distance (Sao) of 5 mm, assured switch-off distance (Sar) of 15 mm (with actuator MC36CM)
- Reinforced polymeric casing (PBT) with a protection degree IP67, operating temperature range from -25°C to +80°C
- Compact dimensions: only 36 x 26 x 13 mm



MC88C series

Safety magnetic sensors



The MC88C are encoded safety magnetic sensors with rectangular housing, used to monitor the position of hinged, sliding or removable guards of industrial applications.

Carlo Gavazzi safety sensors stop or disconnect the dangerous motions, if the mobile protections are opened or displaced. They are suitable for safety gates applications up to safety category 4, PL e according to EN ISO 13849-1 with suitable logic safety module.

Up to 3 outputs available, with switching distance depending on the actuator chosen.

Thanks to their wide actuation range MC88C sensors are the right solution in applications where a precise approach is not possible and greater tolerances are required.



Extra-long switching distance

The safety magnetic sensors together with the magnetic actuator are particularly suitable to monitor protections of the safety gates that allow the entry to machines with dangerous movements, mainly in environment with strong presence of dust and dirtiness.

Customizable

- The sensors are available with left or right exit, integrated cable, M8 or pig-tail with M12 connector and optionally LED indicator
- 2 normally open, 1 normally open + 1 normally closed or 2 normally open and 1 normally closed contacts (with open guard)

Standards compliance

- Up to Cat. 4 PL e in accordance with EN ISO 13849-1

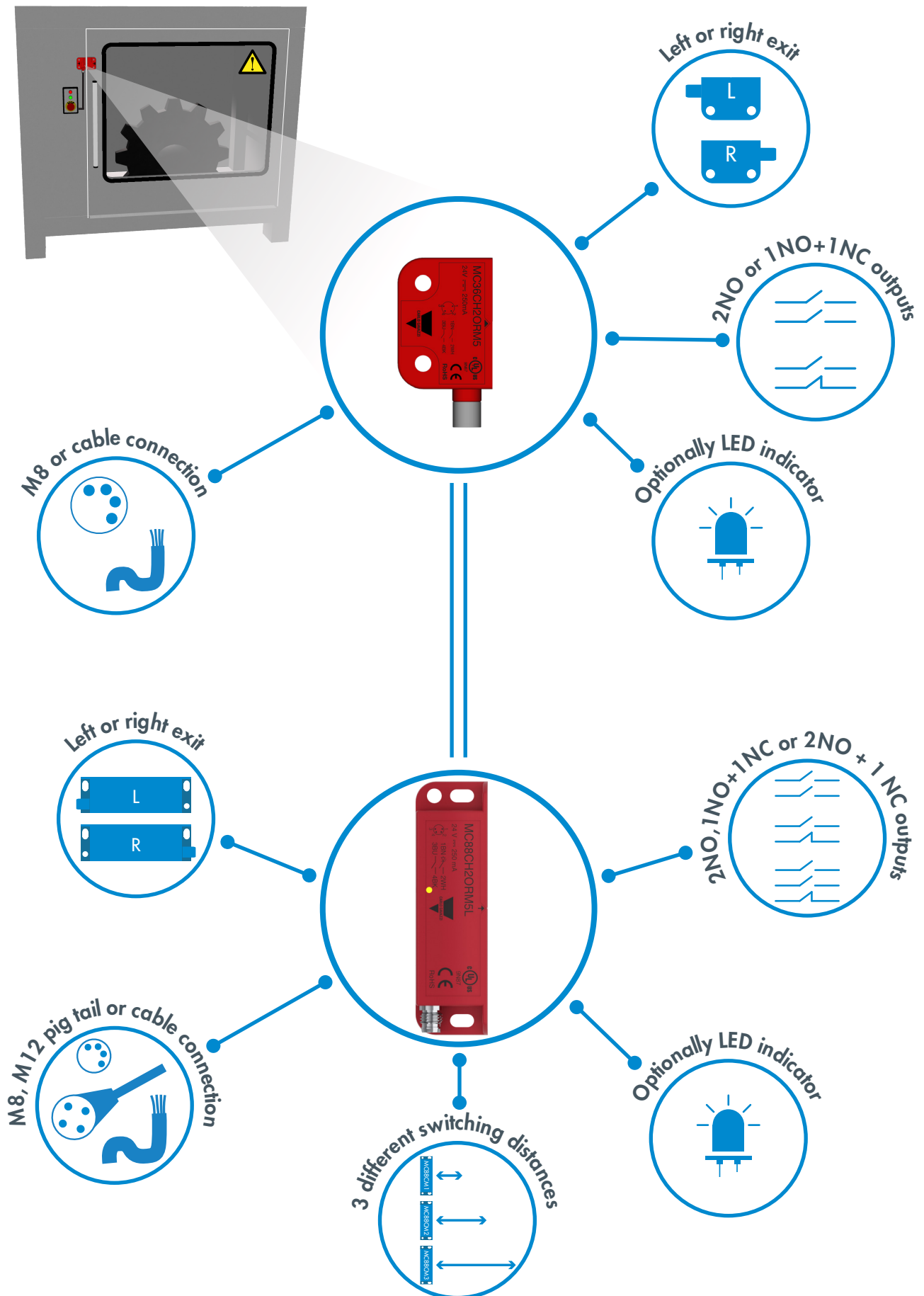
High performance

- Assured switching distance (Sao) of 5 mm, assured switch-off distance (Sar) of 15 mm with actuator MC88CM1
- Assured switching distance (Sao) of 8 mm, assured switch-off distance (Sar) of 18 mm with actuator MC88CM2
- Assured switching distance (Sao) of 18 mm, assured switch-off distance (Sar) of 30 mm with actuator MC88CM3
- Reinforced polymeric casing (PBT) with a protection degree IP67, operating temperature range from -25°C to +80°C
- Standard dimensions: 88 x 25 x 13 mm



MC series

Safety magnetic sensors



Type selection

			Compact	Standard	
Left exit					
PVC cable 2m	2NO	No LED	MC36CH2OLA2	MC88CH2OLA2	
		LED	MC36CH2OLA2L	MC88CH2OLA2L	
	1NO+1NC	No LED	MC36CH1O1CLA2	MC88CH1O1CLA2	
		LED	MC36CH1O1CLA2L	MC88CH1O1CLA2L	
	2NO + 1NC	No LED	-	MC88CH2O1CLA2	
		LED	-	MC88CH2O1CLA2L	
M8 integrated connector	2NO	No LED	MC36CH2OLM5	MC88CH2OLM5	
		LED	MC36CH2OLM5L	MC88CH2OLM5L	
	1NO+1NC	No LED	MC36CH1O1CLM5	MC88CH1O1CLM5	
		LED	MC36CH1O1CLM5L	MC88CH1O1CLM5L	
	Pig tail with M12 connector	2NO	No LED	-	MC88CH2OLT1
			LED	-	MC88CH2OLT1L
1NO+1NC		No LED	-	MC88CH1O1CLT1	
		LED	-	MC88CH1O1CLT1L	
Right exit					
PVC cable 2m	2NO	No LED	MC36CH2ORA2	MC88CH2ORA2	
		LED	MC36CH2ORA2L	MC88CH2ORA2L	
	1NO+1NC	No LED	MC36CH1O1CRA2	MC88CH1O1CRA2	
		LED	MC36CH1O1CRA2L	MC88CH1O1CRA2L	
	2NO + 1NC	No LED	-	MC88CH2O1CRA2	
		LED	-	MC88CH2O1CRA2L	
M8 integrated connector	2NO	No LED	MC36CH2ORM5	MC88CH2ORM5	
		LED	MC36CH2ORM5L	MC88CH2ORM5L	
	1NO+1NC	No LED	MC36CH1O1CRM5	MC88CH1O1CRM5	
		LED	MC36CH1O1CRM5L	MC88CH1O1CRM5L	
	Pig tail with M12 connector	2NO	No LED	-	MC88CH2ORT1
			LED	-	MC88CH2ORT1L
1NO+1NC		No LED	-	MC88CH1O1CRT1	
		LED	-	MC88CH1O1CRT1L	
Actuator					
Sao: 5mm; Sar: 15mm			MC36CM	MC88CM1	
Sao: 8mm; Sar: 18mm			-	MC88CM2	
Sao: 18mm; Sar: 30mm			-	MC88CM3	

Magnetic sensors

Selection guide

Safety magnetic sensors

Housing	Cylindrical	Cylindrical	Cylindrical
Operating distance	15 mm	15 mm	15 mm
Dimensions (mm)	M18 x 1	M18 x 1	M18 x 1



Family	SMS	SMS	SMS
Material	Plastic	Plastic	Stainless steel
Connection	PVC cable	PVC cable	PVC cable
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	4	4	4
Approvals / Marks	CE	CE, UL	CE

References

1 NO + 1 NC	SMSA2P02, SMSA2P02LD	SMS2P11AJ02M	SMSA2M02
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Housing	Cylindrical	Cylindrical	Cylindrical
Operating distance	15 mm	16 mm	16 mm
Dimensions (mm)	M30 x 1.5	M18 x 1	M18 x 1



Family	SMS	SMS	SMS
Material	Plastic	Plastic	Stainless steel
Connection	PVC cable	PVC cable	PVC cable
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	4	3	3
Approvals / Marks	CE	CE	CE

References

1 NO + 1 NC	SMSA3P02		
1 NO		SMSA2P10	SMSA2M10
2 NO		SMSA2P30	

Safety magnetic sensors

Housing	Cylindrical	Cylindrical	Cylindrical
Operating distance	16 mm	16 mm	16 mm
Dimensions (mm)	M30 x 1.5	M18 x 1	M30 x 1.5



Family	SMS	SMS	SMS
Material	Plastic	Plastic	Plastic
Connection	PVC cable	PVC cable	PVC cable
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	3	4	4
Approvals / Marks	CE	CE	CE

References

2 NO	SMSA3P30	SMSA2P03	SMSA3P03
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Magnetic sensors

Selection guide

Safety magnetic sensors

Housing	Rectangular	Rectangular	Rectangular
Operating distance	10 mm	10 mm	20 mm
Dimensions (mm)	88 x 25 x 13	88 x 25 x 13	88 x 25 x 13



Family	SMS	SMS	SMS
Material	Plastic	Plastic	Plastic
Connection	PVC cable	PVC cable	PVC cable
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	4	4	4
Approvals / Marks	CE	CE, UL	CE

References

Safety 1 NO + 1 NC	SMS01	SMSAP11AA02M	SMS02, SMS02LD, SMS02S1
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Housing	Rectangular	Rectangular	Rectangular
Operating distance	20 mm	20 mm	20 mm
Dimensions (mm)	88 x 25 x 13	88 x 25 x 13	88 x 25 x 13



Family	SMS	SMS	SMS
Material	Plastic	Plastic	Plastic
Connection	PVC cable	PVC cable	PVC cable
Degree of protection	IP 67	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	4	4	4
Approvals / Marks	CE, UL	CE	CE, UL

References

Safety 1 NO + 1 NC	SMSAP11AB02M		
Safety 2 NO		SMS03	SMSAP20AF02M
Safety 2 NO + Auxiliary 1 NC		SMS03NC	SMSAP20AG02M

Safety magnetic sensors

Housing	Rectangular	Rectangular
Operating distance	20 mm	20 mm
Dimensions (mm)	88 x 25 x 13	88 x 25 x 13



Family	SMS	SMS
Material	Plastic	Plastic
Connection	0.3 m cable + M12 4-pole connector	0.3 m cable + M12 4-pole connector
Degree of protection	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	4	4
Approvals / Marks	CE	CE, UL

References

Safety 2 NO	SMS03+CM1A4/03M	SMSAP20AF03DCP
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Housing	Rectangular	Rectangular
Operating distance	20 mm	20 mm
Dimensions (mm)	88 x 25 x 13	88 x 25 x 13



Family	SMS	SMS
Material	Plastic	Plastic
Connection	PVC cable	PVC cable
Degree of protection	IP 67	IP 67
Operating temperature	-25° to +70°C (-13° to +158°F)	-25° to +70°C (-13° to +158°F)
Safety category	2	2
Approvals / Marks	CE	CE

References

Safety 1 NO	SMS10	
Safety 1 NO + Auxiliary 1 NC		SMS10NC, SMS10NCCM1

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