

## Safety magnetic sensors

# Sensors

# 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, 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 MC36CM)
- Reinforced polymeric casing (PBT) with a protection degree IP67, operating temperature range from -25°C to +80°C
- IP69K protection degree for M8-plug versions without LED
- 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

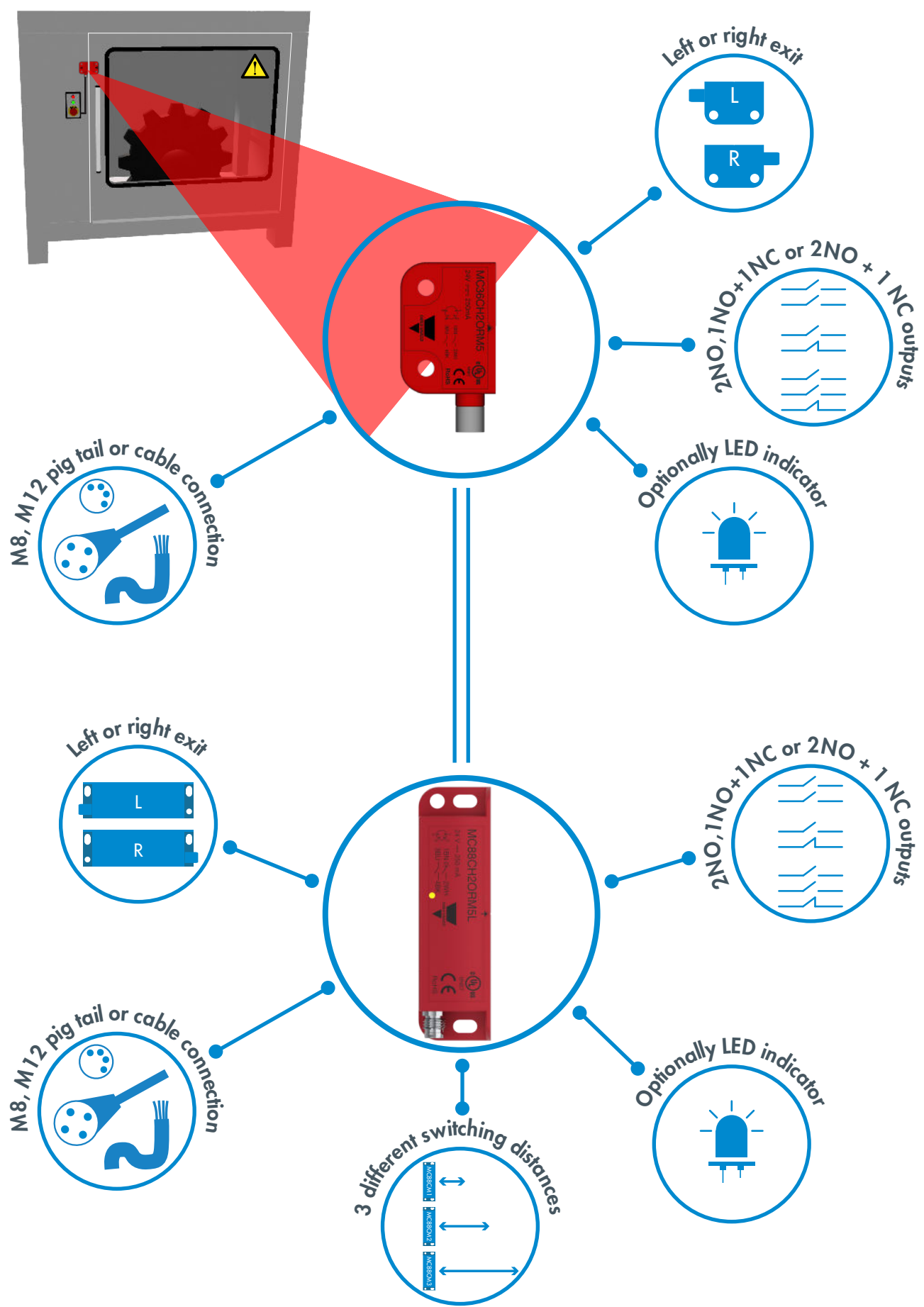
### High performance

- 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
- IP69K protection degree for M8-plug versions without LED
- Standard dimensions: 88 x 25 x 13 mm



# MC series

## Safety magnetic sensors



## Type selection

			Compact	Standard	
<b>Left exit</b>					
PVC cable 2m	2NO	No LED	<b>MC36CH2OLA2</b>	<b>MC88CH2OLA2</b>	
		LED	<b>MC36CH2OLA2L</b>	<b>MC88CH2OLA2L</b>	
	1NO+1NC	No LED	<b>MC36CH1O1CLA2</b>	<b>MC88CH1O1CLA2</b>	
		LED	<b>MC36CH1O1CLA2L</b>	<b>MC88CH1O1CLA2L</b>	
	2NO + 1NC	No LED	<b>MC36CH2O1CLA2</b>	<b>MC88CH2O1CLA2</b>	
		LED	<b>MC36CH2O1CLA2L</b>	<b>MC88CH2O1CLA2L</b>	
M8 integrated connector	2NO	No LED	<b>MC36CH2OLM5</b>	<b>MC88CH2OLM5</b>	
		LED	<b>MC36CH2OLM5L</b>	<b>MC88CH2OLM5L</b>	
	1NO+1NC	No LED	<b>MC36CH1O1CLM5</b>	<b>MC88CH1O1CLM5</b>	
		LED	<b>MC36CH1O1CLM5L</b>	<b>MC88CH1O1CLM5L</b>	
	Pig tail with M12 connector	2NO	No LED	<b>MC36CH2OLT1</b>	<b>MC88CH2OLT1</b>
			LED	<b>MC36CH2OLT1L</b>	<b>MC88CH2OLT1L</b>
1NO+1NC		No LED	<b>MC36CH1O1CLT1</b>	<b>MC88CH1O1CLT1</b>	
		LED	<b>MC36CH1O1CLT1L</b>	<b>MC88CH1O1CLT1L</b>	
<b>Right exit</b>					
PVC cable 2m	2NO	No LED	<b>MC36CH2ORA2</b>	<b>MC88CH2ORA2</b>	
		LED	<b>MC36CH2ORA2L</b>	<b>MC88CH2ORA2L</b>	
	1NO+1NC	No LED	<b>MC36CH1O1CRA2</b>	<b>MC88CH1O1CRA2</b>	
		LED	<b>MC36CH1O1CRA2L</b>	<b>MC88CH1O1CRA2L</b>	
	2NO + 1NC	No LED	<b>MC36CH2O1CRA2</b>	<b>MC88CH2O1CRA2</b>	
		LED	<b>MC36CH2O1CRA2L</b>	<b>MC88CH2O1CRA2L</b>	
M8 integrated connector	2NO	No LED	<b>MC36CH2ORM5</b>	<b>MC88CH2ORM5</b>	
		LED	<b>MC36CH2ORM5L</b>	<b>MC88CH2ORM5L</b>	
	1NO+1NC	No LED	<b>MC36CH1O1CRM5</b>	<b>MC88CH1O1CRM5</b>	
		LED	<b>MC36CH1O1CRM5L</b>	<b>MC88CH1O1CRM5L</b>	
	Pig tail with M12 connector	2NO	No LED	<b>MC36CH2ORT1</b>	<b>MC88CH2ORT1</b>
			LED	<b>MC36CH2ORT1L</b>	<b>MC88CH2ORT1L</b>
1NO+1NC		No LED	<b>MC36CH1O1CRT1</b>	<b>MC88CH1O1CRT1</b>	
		LED	<b>MC36CH1O1CRT1L</b>	<b>MC88CH1O1CRT1L</b>	
<b>Actuator</b>					
Sao: 5mm; Sar: 15mm			<b>MC36CM</b>	<b>MC88CM1</b>	
Sao: 8mm; Sar: 18mm			-	<b>MC88CM2</b>	
Sao: 18mm; Sar: 30mm			-	<b>MC88CM3</b>	

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