


**SERIE** **AM**

**Inductive proximity sensors  
M12 - DC**

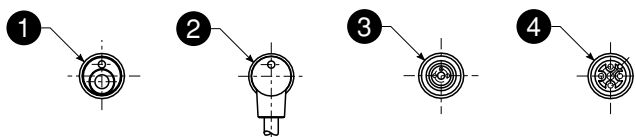
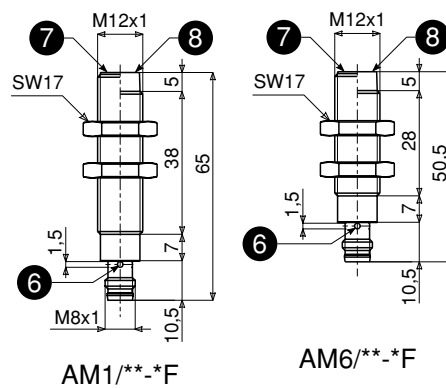
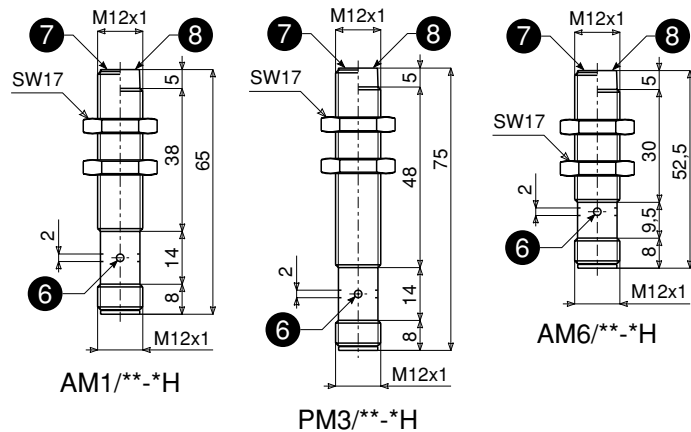
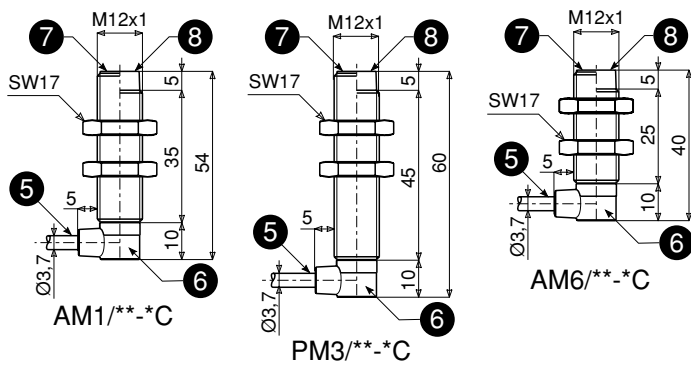
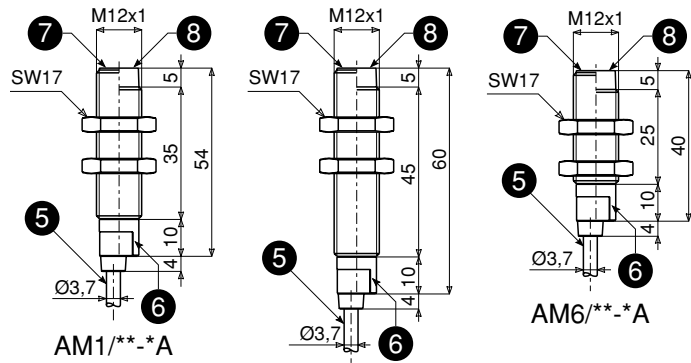
- ◆ Wide range of models: standard, short version, DECOUT® output
- ◆ Metal housing
- ◆ Axial and right angle cable exit (patented)
- ◆ M8 and M12 metal plug cable exit
- ◆ DECOUT® multifunctional models to reduce stocking costs
- ◆ LED status indicator 360° visible
- ◆ IP67 protection degree
- ◆ Complete protection against electrical damages

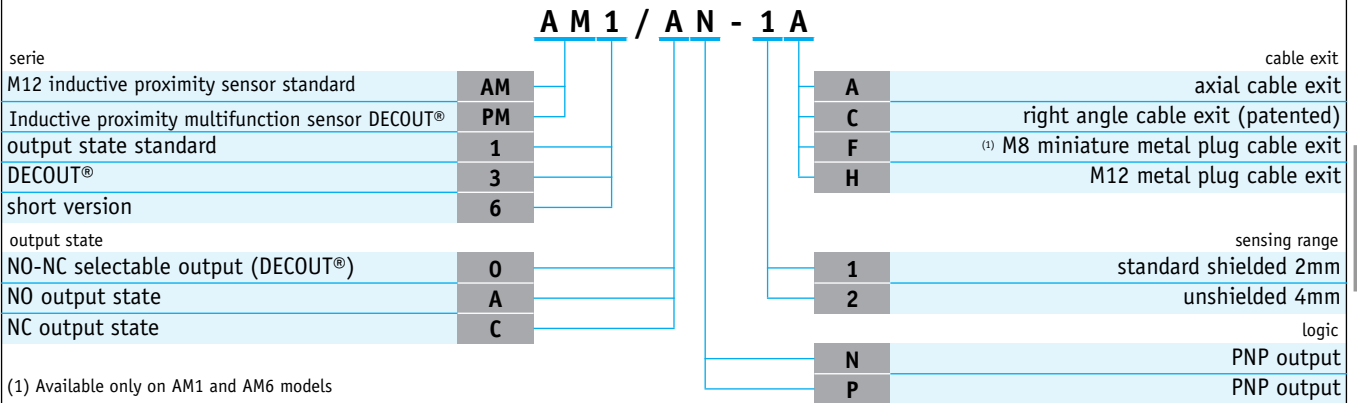

**Key**

- |   |  |
|---|--|
| 1 | Axial cable exit                                   |
| 2 | Right angle cable exit                             |
| 3 | M8 miniature plug cable exit                       |
| 4 | M12 plug cable exit                                |
| 5 | Cable 3(4)x0,022mm <sup>2</sup> , Ø3,75mm, PVC, 2m |
| 6 | LED status indicators (NO output energized)        |
| 7 | Shielded version                                   |
| 8 | Unshielded version                                 |

 Connectors series **CD** serie

 Accessori series **ST** serie

**DIMENSIONAL DRAWING**


**ORDERING SYSTEM**

**SPECIFICATIONS**

Model	AM1/**-1*	AM1/**-2*	PM3/**-1*	PM3/**-2*	AM6/**-1*	AM6/**-2*
<b>Nominal sensing distance S<sub>n</sub></b> <sup>(1)</sup>	2mm	4mm	2mm	4mm	2mm	4mm
Operating distance	0...1,6mm (shielded), 0...3,2mm (unshielded)					
Differential travel	2...10%					
Repeat accuracy	2%					
<b>Operating voltage</b>	10-30Vdc					
Ripple	≤10%					
No-load supply current	20mA		30mA		20mA	
<b>Load current</b>	≤200mA		≤100mA		≤200mA	
Leakage current	≤10μA					
Voltage drop	1,2V max.					
<b>Output type</b>	NPN or PNP NO or NC		NPN/PNP select. NO/NC select.		NPN or PNP NO or NC	
Switching frequency	2KHz		1KHz		2KHz	
Time delay before availability	100ms					
<b>Supply electrical protections</b>	polarity reversal, transient					
Output electrical protections	short circuit (autoreset)		short circuit (with hold)		short circuit (autoreset)	
<b>Temperature range</b>	-25°...+70°C					
Temperature drift	10% Sr					
<b>Protection degree (DIN 40 050)</b>	IEC IP67					
LED indicators	Yellow (NO output energized)					
<b>Housing material</b>	nickel-plated brass					
Sensing face material	PBT					
Tightening torque	10Nm					
Weight (approx.)	30g - 70g (AM1, AM3); 25g - 65g (AM6)					

(1) with 12x12mm FE360 target.