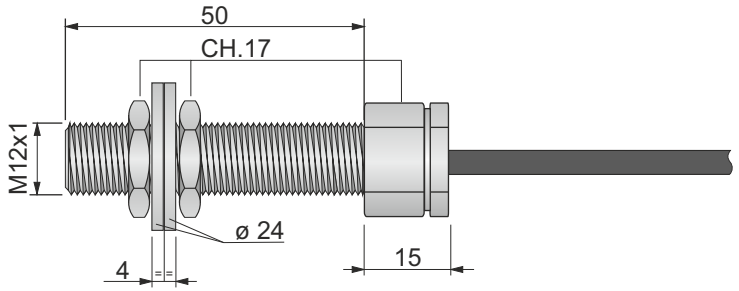
SENSORI MAGNETICI SERIE SMC12-NO SS BC HF ■ AGD2

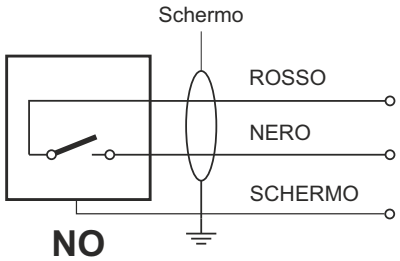
- **CONFORMITA' : DIRETTIVA ATEX 2014/34/UE GRUPPO «II» CATEGORIA 2 AREA GAS (ZONA 1) e AREA POLVERI (ZONA 21)**
- **SISTEMA DI CERTIFICAZIONE IECEx**



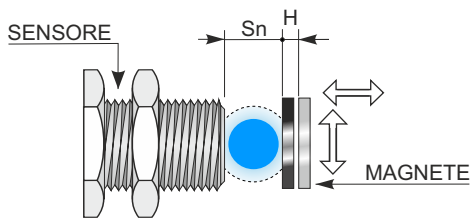
Dimensioni in mm

CARATTERISTICHE TECNICHE		YSM000035 - **SMC-12 NO SS BC HF LC2 AGD2**	YSM000036 - **SMC-12 NO SS BC HF LC5 AGD2**	YSM000037 - **SMC-12 NO SS BC HF LC10 AGD2**
Distanza d'intervento Sn	mm	> 20 (-0 / +20%) con magnete M20		
Isteresi (H)	%Sn	<= 10		
Tensione di commutazione max.	V	100		
Corrente di commutazione max.	A	0.5		
Potenza di commutazione max.	W/VA	50		
Frequenza max. di lavoro	Hz	230		
Tempo di attuazione contatto	ms	2		
Ripetibilità	%Sn	± 0.3		
Limiti di temperatura di funzionamento	°C	-25 ÷ +70		
Limiti di temperatura di immagazzinamento	°C	-25 ÷ +80		
Temperatura massima superficiale	°C	+85		
Grado di protezione	IP	67		
Custodia		Cilindrica M12x1 in acciaio AISI 316		
Cavo PUR/TPE Halogen Free		2 x 24 AWG schermato mt.2	2 x 24 AWG schermato mt.5	2 x 24 AWG schermato mt.10
Marcatura		Gas : Ex II 2G Ex mb IIC T6 Gb Polveri : Ex II 2D Ex mb IIIC T85°C Db		
Conformità norme		EN60079-0:2012 + A11:2013 - IEC60079-0:2011 - EN60079-18:2015 - IEC60079-18:2014 - EN60947-1:2007 - EN60947--5-1:2004		
Certificazioni		IMQ 12 ATEX 016 X - IECEx IMQ 16.0014X		

SCHEMA DI COLLEGAMENTO

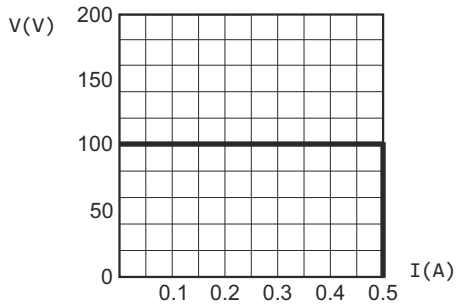


ESEMPIO DI FUNZIONAMENTO



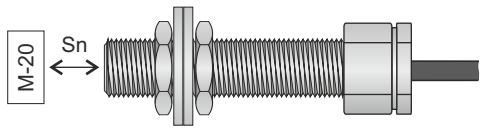
Sn - distanza di intervento in funzione del tipo di magnete usato
H - corsa differenziale riferita all'allontanamento del magnete dal sensore
Sn+H - distanza di riapertura del contatto in fase di allontanamento

DIAGRAMMA DI COMMUTAZIONE



DISTANZA D'INTERVENTO CON MAGNETE M-20

AVVICINAMENTO ASSIALE

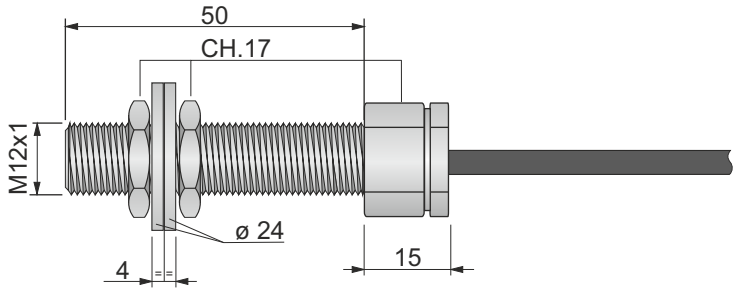


* **Magnete M20** - cod. ACM000006

Aeco srl - via G. Leopardi, 5 - 20065 - Inzago (MI) - Italy - Tel. 02954381 - Fax 029548528 - web : www.aecosensors.com - info : asc@aecosensors.com

MAGNETIC SENSORS SMC12-NO SS BC HF ■ AGD2 SERIES

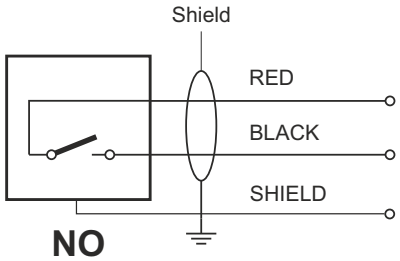
- **CONFORMITY : ATEX DIRECTIVE 2014/34/EU GROUP «II» CATEGORY «2» GAS AREA (ZONE 1) and DUST AREA (ZONE 21)**
- **IECEx CERTIFICATION SYSTEM**



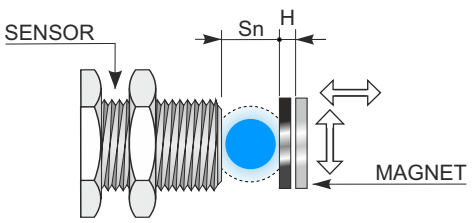
Dimensions mm

TECHNICAL CHARACTERISTICS		YSM000035 - **SMC-12 NO SS BC HF LC2 AGD2**	YSM000036 - **SMC-12 NO SS BC HF LC5 AGD2**	YSM000037 - **SMC-12 NO SS BC HF LC10 AGD2**
Sensing distance (Sn)	mm	> 20 (-0 / +20%) with M20 magnet		
Hysteresis (H)	%Sn	<= 10		
Max. switching voltage	V	100		
Max. switching current	A	0.5		
Max. switching power	W/VA	50		
Switching frequency	Hz	230		
Contact actuation time	ms	2		
Repeatability	%Sn	± 0.3		
Operating temperature range	°C	-25 ÷ +70		
Storage temperature range	°C	-25 ÷ +80		
Max. temperature on the surface	°C	+85		
IP rating	IP	67		
Housing		Cylindrical housing M12x1 stainless steel AISI 316		
Cable PUR/TPE Halogen Free		2 x 24 AWG shielded mt.2	2 x 24 AWG shielded mt.5	2 x 24 AWG shielded mt.10
Marking		Gas : Ex II 2G Ex mb IIC T6 Gb	Dust : Ex II 2D Ex mb IIIC T85°C Db	
According to standard		EN60079-0:2012 + A11:2013 - IEC60079-0:2011 - EN60079-18:2015 - IEC60079-18:2014 - EN60947-1:2007 - EN60947--5-1:2004		
Approvals		IMQ 12 ATEX 016 X - IECEx IMQ 16.0014X		

WIRING DIAGRAM

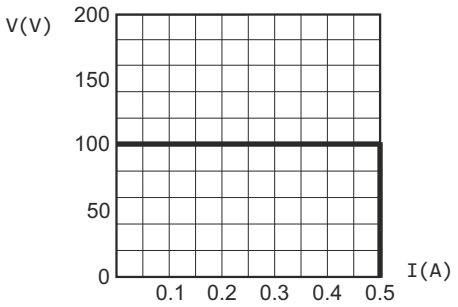


WORKING EXAMPLE



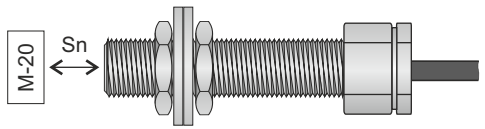
Sn - sensing distance in relation to type of magnet used
H - differential stroke related to magnet removal
Sn+H - distance during removal in which contact opens

SWITCHING DIAGRAM



SENSING DISTANCE WITH M-20 MAGNET

AXIAL APPROXIMATION



* **M20 magnet** - cod. ACM000006

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