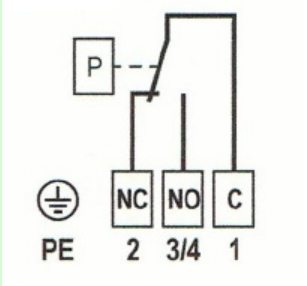
CNM 20 EX

MEMBRANE SWITCH

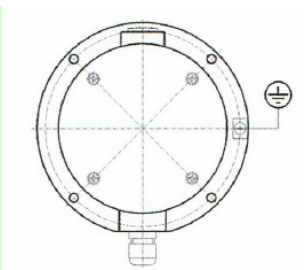
Application	Membrane controller for level control of bulk solids, easy flow and at atmospheric pressure.		
Operating principle	The membrane must be exposed to the material to be controlled. As the material that enters the silo accumulates and covers the membrane, the pressure it exerts forces it to back off by pressing the mechanism that operates a switch. This switch is used to start or stop visual, acoustic signals or the loading and unloading mechanisms in silos and containers.		
Certificates			
Model	CNM 20 EX	CNM 20 EX B1	CNM 20 EX B5
Product	Powder	Powder	Gas + Powder
Certificate	ATEX II 1/3D Ex ta/tc IIIC	ATEX II 1/3D Ex ta/tc IIIC	ATEX II 2G Ex ib IIC T6
(follows9	T63°C	T83°C	II 1/2D Ex ta/tb IIIC T83°C
Technical data			
Product density	0.3 t/m³ .. 2.5 t/m³		
Operating pressure	Atmospheric		
Brea´age pressure	> 1 bar		
Cable entry	M20 x 1.5		
Model	CNM 20 EX	CNM 20 EX B1	CNM 20 EX B5
Temperature	-20 ºC .. +60 ºC	-20 ºC .. +80 ºC	-20 ºC .. +80 ºC
Protection	IP 65	IP 66	IP 66
Electrical data			
Contact type			
Voltage			
Model	CNM 20 EX	CNM 20 EX B1	CNM 2O EX B5
Breakout power	4 A / 250 V AC	4 A / 250 V AC	Uo < 30 V DC; Ii < 100 mA
Remarks	In alternating voltage, consumption is understood as resistive load. For inductive or capactive load reduce to 50%.		
Materials			
Membrane	Stainlee steel AISI304		
Hoop and screws	Stainlee steel AISI304		
Model	CNM 20 EX	CNM 20 EX B1	CNM 20 EX B5
Body and cover	Polyester + GF	Aluminium	Aluminium
Cable gland	Polyamide	Brass	Brass
Weight	0.48 kg	0.95 kg	0.95 kg
Start up			
Installation	Install the membrane switch with its gasket on one side of the tank and screw it tight with M6 screws and washers.		
Sensitivity	150 .. 2000 g, depending on model		
Sensitivity adjustment	By means of a regulation column nut. The factory setting is preset to medium sensitivity.		

Electrical wiring

Electrical connection



Ground connection



Dimensions