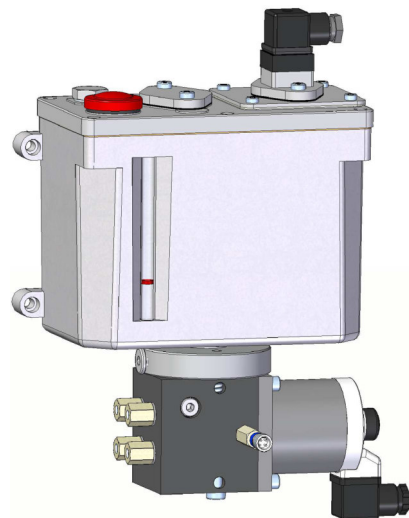
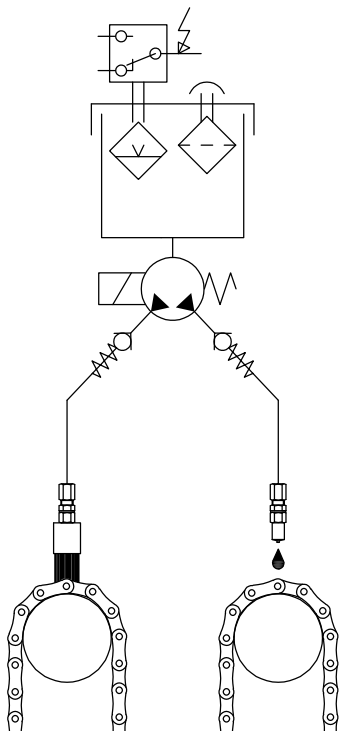
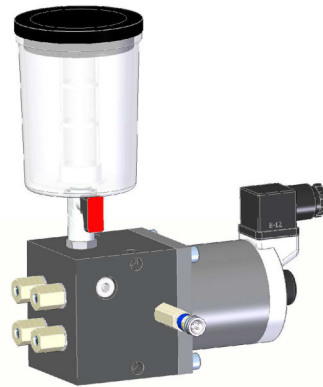
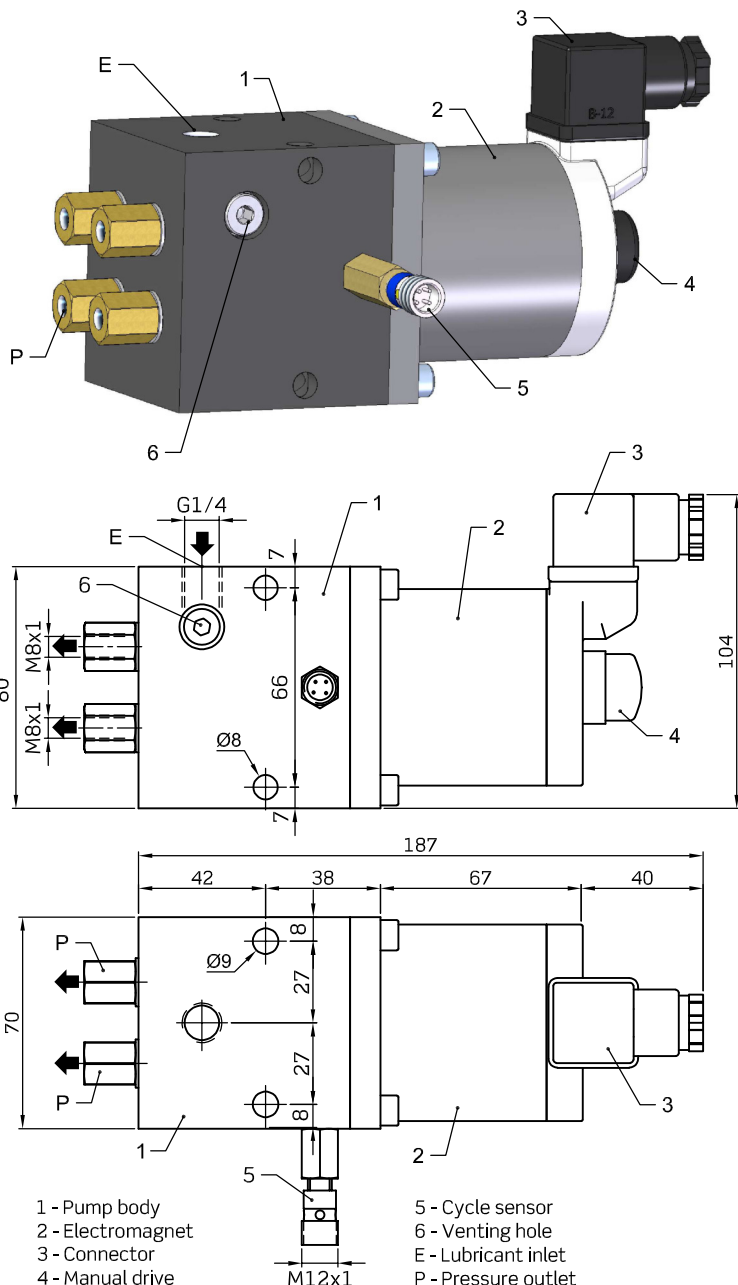


Electromagnetic drive piston pump for OIL

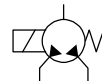
- 2-3-4-6 outlets
- Flow 20-40-60 mm³/imp
- Maximum pressure 40 bar
- Viscosity up to 460 mm²/s





Electromagnetic drive piston pump for OIL

MP01/A
218.510.000



- 2-3-4-6 outlets
- Flow 20-40-60 mm³/imp
- Max pressure 40 bar
- Viscosity up to 460 mm²/s

Application

Among other uses, as dosing pump in conveyor chains lubrication:

- by injection using projection nozzles
- by direct lubrication at then greasing point or through other systems such as brushes, etc...

With projection nozzles, Ø4x0,7 mm rigid pipe with 2,5 maximum length must be used, as direct as possible avoiding any fitting or connector between the pump and the nozzle which could difficult the flow of the oil.

With greasing brushes metallic or plastic tube can be used, with a maximum length of 25 metres.

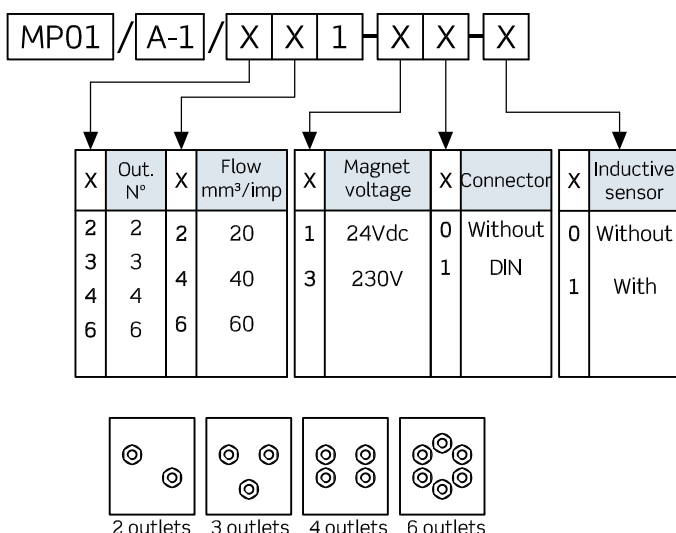
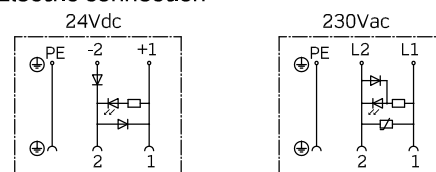
Technical data

Lubricant..... mineral and synthetic oils
Viscosity..... < 460 mm²/s
Inlet pressure..... < 2 bar
Outlet flow..... 20 - 40 - 60 mm³
Delivery pressure..... < 40 bar
Working frequency..... ≤ 2 strokes/s
Operation temperature..... -15°C...+80°C
Protection degree..... IP54

Electric characteristics

Voltage..... 24Vdc - 230V 50/60Hz
Power..... 105W
Consumption..... 4,5A/24Vdc - 0,55A/230V
Connector..... DIN 43650-A with led
Magnet activation time..... 0,1 ≤ T ≤ 0,2 s
ED duty cycle..... 40%

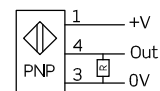
Electric connection



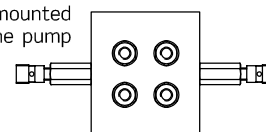
Sensor of cycles

An inductive sensor detects the movement of the piston, opening/closing the contact.

Function.....NO
Voltage..... 10 ÷ 30V
Max load admitted..... 200 mA
Protection..... IP65
Temperature..... -10°C ÷ +70°C
Connector..... M12 4 poles



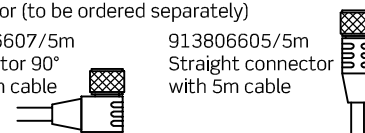
The sensor can be mounted at both sides of the pump body.



The inductive sensor is supplied without connector (to be ordered separately)

913806607/5m
Connector 90°
with 5m cable

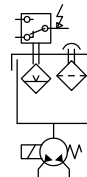
913806605/5m
Straight connector
with 5m cable



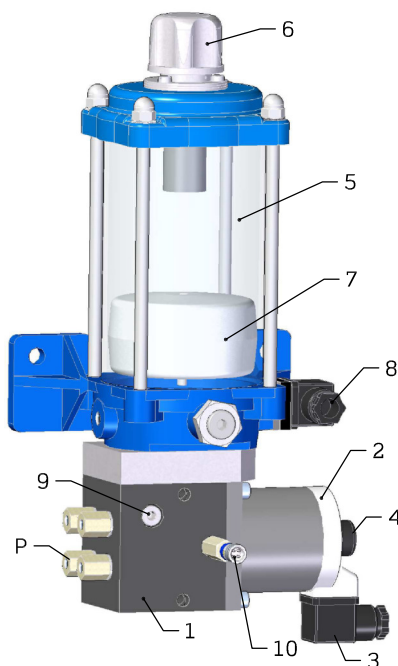
Electromagnetic drive piston pump for OIL

MB03/A
218.710.000

- 2-3-4-6 outlets
- Flow 20-40-60 mm³/imp
- Max pressure 40 bar
- Viscosity up to 460 mm²/s



- 1 - Pump body
- 2 - Electromagnet
- 3 - Connector
- 4 - Manual drive
- 5 - Tank
- 6 - Filling plug and filter
- 7 - Float (level switch)
- 8 - Level switch connector
- 9 - Venting hole
- 10 - Cycle sensor
- P - Pressure outlets



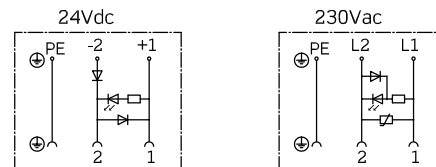
Technical data

Lubricant..... mineral and synthetic oils
Viscosity..... < 460 mm²/s
Outlet flow..... 20 - 40 - 60 mm³
Delivery pressure..... < 40 bar
Working frequency..... ≤ 2 strokes/s
Operation temperature..... -15°C...+80°C
Protection degree..... IP54

Electric characteristics

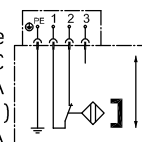
Voltage..... 24Vdc - 230V 50/60Hz
Power.....105W
Consumption..... 4,5A/24Vdc - 0,55A/230V
Connector..... DIN 43650-A with led
Magnet activation time..... 0,1 ≤ T ≤ 0,2 s
ED duty cycle.....40%

Electric connection



Level switch

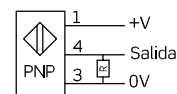
-contact..... see figure
-max switching voltage...100 VDC
-max switch. consumpt.....0,25 A
-max switch. power...8W(?)...3W(?)
-connector..... DIN43650 form A



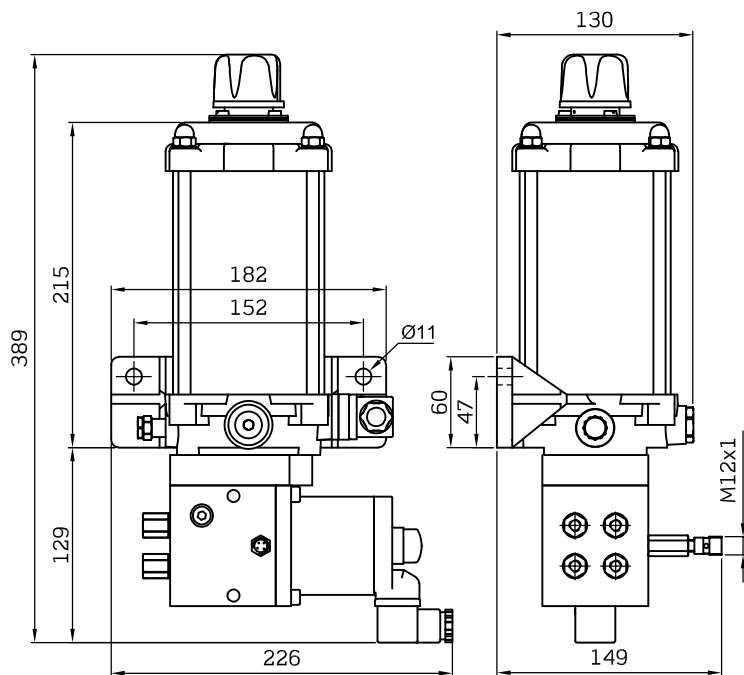
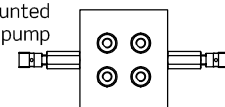
Sensor of cycles

An inductive sensor detects the movement of the piston, opening/closing the contact.

Function.....NO
Voltage..... 10 ÷ 30V
Max load admitted..... 200 mA
Protection..... IP65
Temperature..... -10°C ÷ +70°C
Connector.....M12 4 poles



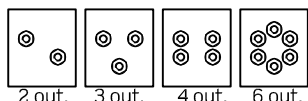
The sensor can be mounted at both sides of the pump body.



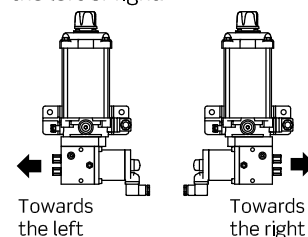
MB03 / A-1 / X 1 / X X / X X X / X X / X

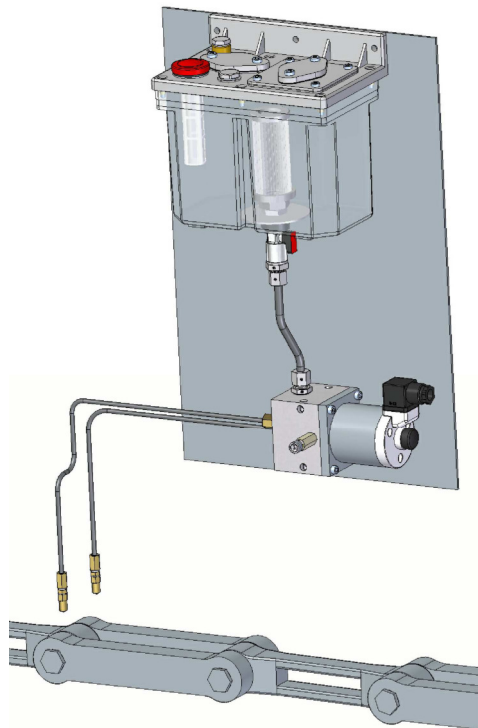
X	Tank capac.	X	Level switch	X	Level connect.	X	Out. n°	X	Flow mm ³ /imp	X	Out. side	X	Magnet voltage	X	Connect.	X	Inductive sensor
5	0,5 l	0	Without	0	Without	2	2	2	20	1	Right	1	24Vdc	0	Without	0	Without
6	1,5 l	5	Low level	1	Without DIN	3	3	4	40	2	Left	3	230V	1	DIN	1	With
						4	4	6	60								
						6	6										

The float of the level switch reduces the capacity of the reservoir in 0,25 l



Side to position the outlets
The unit can be supplied with the outlets positioned towards the left or right.



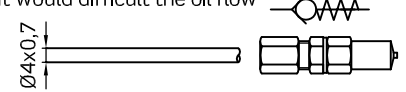


Application with projection nozzles

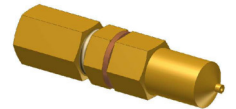
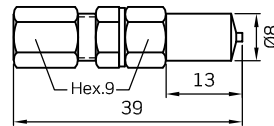
Available in plain and M8x1 threaded version to be clamped on support beam

Maximum viscosity 100 cSt at 40°C

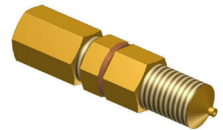
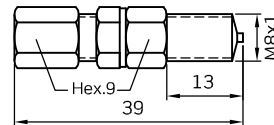
It must be used a $\varnothing 4 \times 0,7$ mm rigid pipe, as short as possible (3 metres maximum length), and avoiding to mount between the pump and the nozzle any fitting or element that would difficult the oil flow



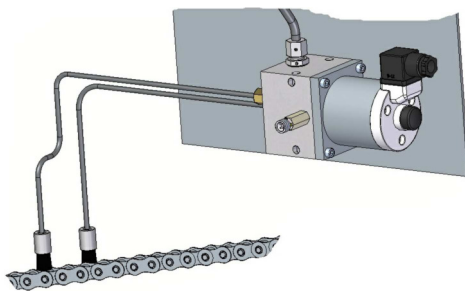
SA01/A-1/1
Plain nozzle



SA01/A-1/2
M8x1 threaded nozzle



The correct positioning and direction of the nozzle in relation to the point is extremely important to achieve an efficient lubrication



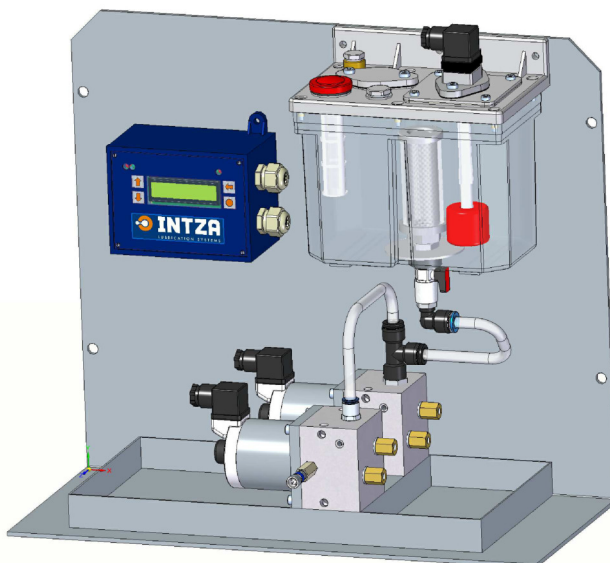
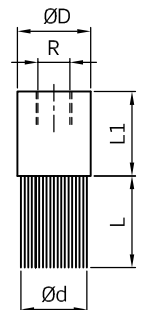
Application with oil brushes

The oil brushes with their own lubricant inlet threaded hole are directly feed from the magnet pump.

A rigid or plastic pipe ($\varnothing 4 \times 0,85$ mm) with a maximum length of 25 metres can be used in this application.

946900 X X X / L=...mm

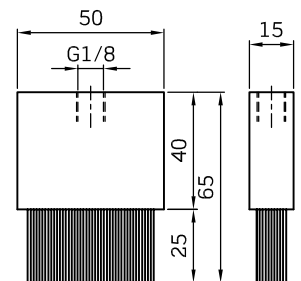
X	Bristles	X	R	X	$\varnothing d$	$\varnothing D$	L1	X
1	Synthetics (nylon)	1	G1/8	1	$\varnothing 12$	$\varnothing 20$	20	Indicate L in mm
				2	$\varnothing 18$	$\varnothing 25$	20	
				3	$\varnothing 25$	$\varnothing 30$	20	
2	Natural (horse hair)	2	G1/4	1	$\varnothing 12$	$\varnothing 20$	25	
				2	$\varnothing 18$	$\varnothing 25$	25	
				3	$\varnothing 25$	$\varnothing 30$	25	

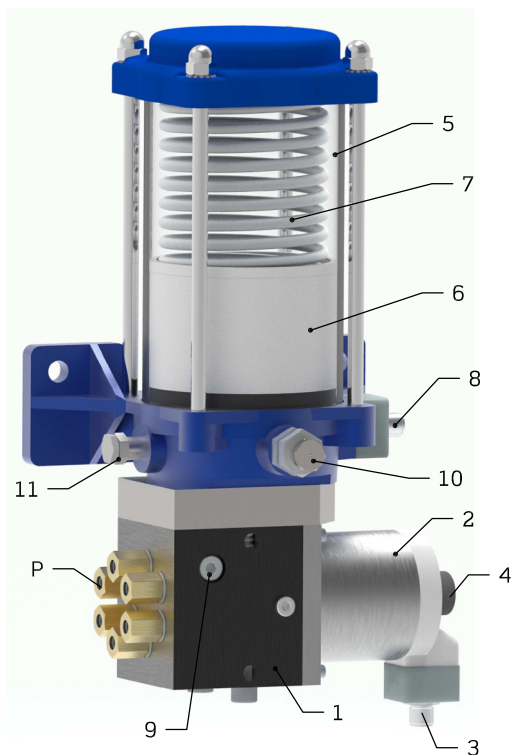


Brush for high temperature

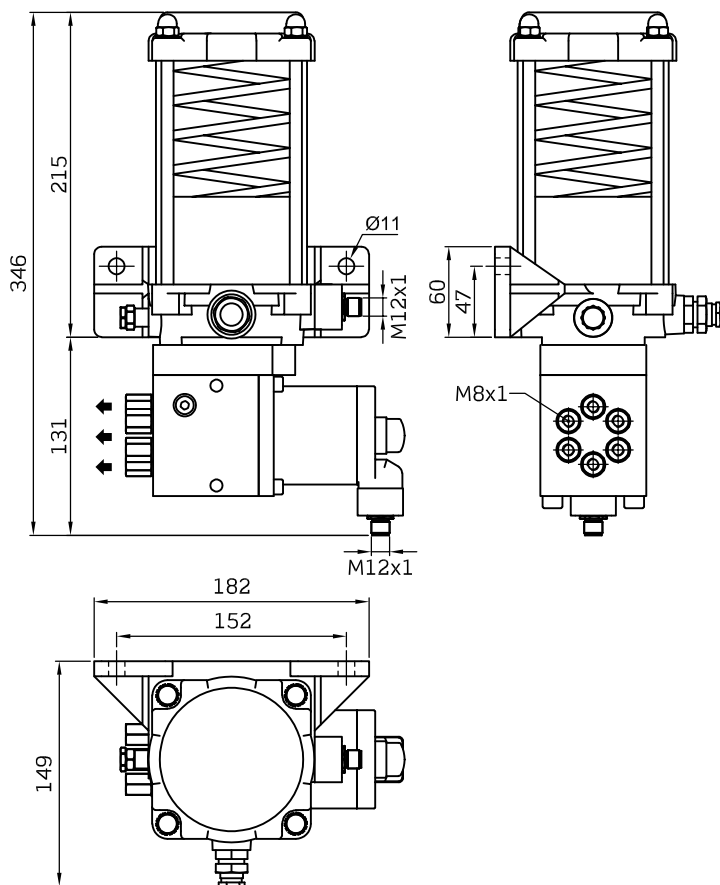
Aluminium body
Brass barb

Reference	Barb
946900001	$\varnothing 0,15$
946900002	$\varnothing 0,25$
946900003	$\varnothing 0,30$

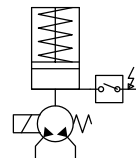




- | | |
|----------------------|-----------------------------------|
| 1 - Pump body | 7 - Pressuring spring |
| 2 - Electromagnet | 8 - Level switch connector [X1] |
| 3 - Connector [X0] | 9 - Venting hole |
| 4 - Manual drive | 10 - Tank filling connector |
| 5 - Tank | 11 - Tank emptying |
| 6 - Follower plate | P - Pressure outlets |



Electromagnetic drive piston pump for GREASE

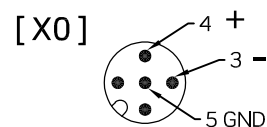


MB03/B-2/54/55/642/15/0

General technical data

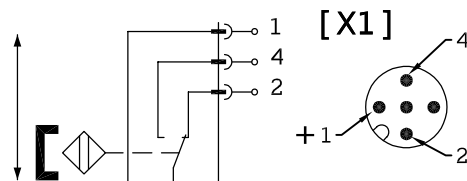
Lubricant..... NLGI 0-1
Number of outlets..... 2-3-4-6
Outlet flow..... 40 mm³
Outlet pressure..... 30 bar- 50 bar
(depending on outputs number)
Protection degree..... IP54
Working temperature..... +10°C...+60°C

Drive electric connection



Voltage..... 24 VDC (19,2...30 VDC)
Power..... 40W
Consumption..... < 2 A
Time ON..... ≥ 1 s
Time OFF..... ≥ 1,5 s
ED duty cycle..... 40 %
Connector..... M12x1
Number of poles..... 5 poles (4 poles + ground)

Level switch electric connection



Pin 4 open with low level

Maximum switching voltage..... 175 VDC
Maximum switching consumption..... 0,25 A
Connector..... M12x1
Number of poles..... 5 polos

Side to position the outlets

The unit can be supplied with the outlets positioned towards the left or right.

