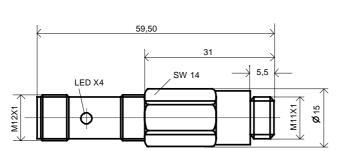


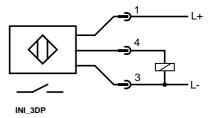
INDUSTRIAL 9.3A-20016-A00

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Dimensions



Connection Diagram



INI\_3PS

Electrical DesignDC PNPOutput FunctionNCOperating Voltage including residual ripple[VDC]1036Current / Permanent[mA]100Voltage Drop / max. Load[V]≤ 2.5Current Input[mA]≤ 15Short Circuit Protection[mA]switchedPolarized / Overload-Proof[Hz]yes / yesOperating Frequency[Hz]typ.100EMCEN 60947-5-2LED yellow	Technical Data		
Operating Voltage including residual ripple $[VDC]$ $1036$ Current / Permanent $[mA]$ $100$ Voltage Drop / max. Load $[V]$ $\leq 2.5$ Current Input $[mA]$ $\leq 15$ Short Circuit Protection $mA]$ $\leq 15$ Polarized / Overload-Proofyes / yesOperating Frequency $[Hz]$ typ.100EMC $EN 60947-5-2$	Electrical Design		DC PNP
including residual ripple[mA]100Current / Permanent[mA]100Voltage Drop / max. Load[V]≤ 2.5Current Input[mA]≤ 15Short Circuit ProtectionswitchedPolarized / Overload-Proofyes / yesOperating Frequency[Hz]typ.100EMCEN 60947-5-2	Output Function		NC
Voltage Drop / max. Load[V] $\leq 2.5$ Current Input[mA] $\leq 15$ Short Circuit ProtectionswitchedPolarized / Overload-Proofyes / yesOperating Frequency[Hz]typ.100EMCEN 60947-5-2		[VDC]	1036
Current Input $[mA]$ $\leq 15$ Short Circuit ProtectionswitchedPolarized / Overload-Proofyes / yesOperating Frequency $[Hz]$ typ.100EMCEN 60947-5-2	Current / Permanent	[mA]	100
Short Circuit ProtectionswitchedPolarized / Overload-Proofyes / yesOperating Frequency[Hz]typ.100EMCEN 60947-5-2	Voltage Drop / max. Load	[V]	≤ 2.5
Polarized / Overload-Proofyes / yesOperating Frequency[Hz]typ.100EMCEN 60947-5-2	Current Input	[mA]	≤ 15
Operating Frequency [Hz] typ.100   EMC EN 60947-5-2	Short Circuit Protection		switched
EMC EN 60947-5-2	Polarized / Overload-Proof		yes / yes
	Operating Frequency	[Hz]	typ.100
Output Indicator LED yellow	EMC		EN 60947-5-2
	Output Indicator		LED yellow
Temperature Range[°C]-25+80	Temperature Range	[°C]	-25+80
Drift of Operating Point [%] $< \pm 10$ of s <sub>r</sub>	Drift of Operating Point	[%]	$< \pm$ 10 of s <sub>r</sub>
Switching Hysteresis [%] 315 of s <sub>r</sub>	Switching Hysteresis	[%]	315 of s <sub>r</sub>
Rated Operating Distance (s <sub>n</sub> ) [mm] 2.0 flush	Rated Operating Distance (s <sub>n)</sub>	[mm]	2.0 flush
Effective Operating Distance (s <sub>r</sub> ) [%] $s_n \pm 10$	Effective Operating Distance $(s_r)$	[%]	s <sub>n</sub> ± 10
Admissible Pressure [bar] 400	Admissible Pressure	[bar]	400
Type of Protection IP67	Type of Protection		IP67
Safety Class III - SELV	Safety Class		III - SELV
Tightening Torque [Nm] 18	Tightening Torque	[Nm]	18
Type of Connection Circular Plug M12	Type of Connection		Circular Plug M12
Material of Housing V4A (1.4571)	Material of Housing		V4A (1.4571)

## Function:

The piston detector serves to monitor metering devices type SSV and VSG. It is a pressure-resistant inductive proximity switch detecting the movements of a metering device piston. It is screwed into the piston hole of the SSV metering device instead of a piston closure plug (in case of type VSG by means of an adapter). Any metering device can easily be retrofitted. Thus, in combination with a control, the piston detector allows the monitoring of a centralized lubrication system.

Subject to modifications