AB Electronic Ltd,
Colvern House, Spring Gardens, Romford, Essex,
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Tel:..(+44) 01708 776 140 Fax: 01708 776 141
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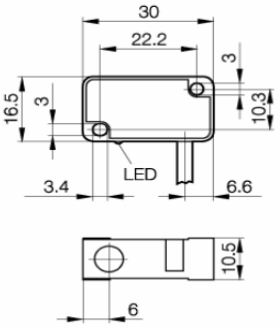
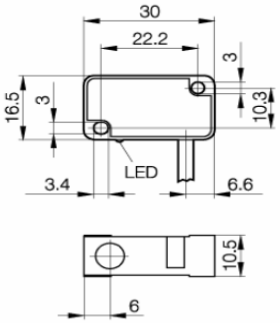
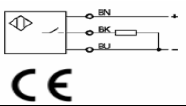
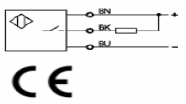
proxistor®

Inductive V3 Proximity Sensor





PNP Normally Open		IPO-002-VSF-LF	
NPN Normally Open			INO-002-VSF-LF
Common Data			
Mounting		Shielded	Shielded
Rated Operating Distance Sn	mm	2mm	2mm
Assured Operating Distance Sn	mm	0…1.6	0…1.6
Repatability	%	<= 5	<= 5
Hysteresis	%	<= 15	<= 15
Function Indication		Yes	Yes
Ambient Tempreture Range	°C	-25…+70	-25…+70
Polution Degree		3	3
IEC-Code		I1D10AP1	I1D10AN1
Time delay before availability	ms	<= 50	<= 50
Mechanical Data			
Housing Size	mm	Quadraform 10.5 x 30	Quadraform 10.5 x 30
Measurements BxHxT or DxT	mm	10.5 x 30 x 16.5	10.5 x 30 x 16.5
Housing Material		PBTP 20%GV	PBTP 20%GV
Material Sensing Face		PBTP 20%GV	PBTP 20%GV
Degree of Protection		IP65	IP65
Connection		Cable	Cable
Cable Type		LiYY-O	LiYY-O
Electrical Data			
Current Type		DC	DC
Wiring		3-Wire	3-Wire
Switching Function		Normally-Open	Normally-Open
Output Signal		PNP	NPN
Rated Operational Voltage	V	24 DC	24 DC
Rated Operational Current	mA	200	200
Supply Voltage	V	10…30 DC	10…30 DC
Ripple	%	< = 15	< = 15
Rated Supply Frequency	Hz		DC
Rated Supply Frequency	Hz	2500	2500
Minimum Operational Current	mA	0	0
No-Load Supply Current	mA	<= 10/<= 3	<= 12/<= 3
Off-State Current	µA	<= 80	<= 80
Voltage Drop	V	<= 2/-	<= 2.5/-
Short Circuit Protection		Yes	Yes
Reverse Polarity Protection		Yes	Yes
Connection		3m 3w PVC cable	3m 3w PVC Cable
EMV - ESD/RFI/Burst/IVW			

Sensing Factors

Material	Factor
steel	1.0
copper	0.25...0.45
brass	0.35...0.50
aluminum	0.30...0.45
stainless steel	0.60...1.00
nickel	0.65...0.75
cast iron	0.93...1.05

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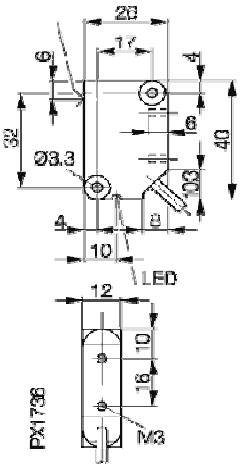
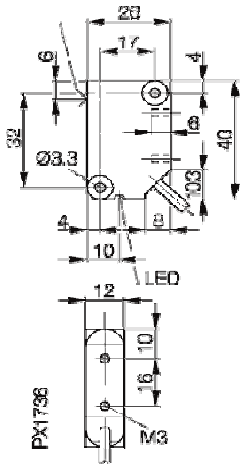
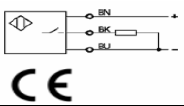
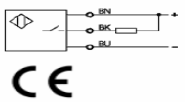




PNP Normally Open		IPO-004-VSF-LF	
NPN Normally Open			INO-004-VSF-LF
Common Data			
Mounting		Shielded	Shielded
Rated Operating Distance Sn	mm	4mm	4mm
Assured Operating Distance Sn	mm	0…3.2	0…3.2
Repatability	%	<= 5	<= 5
Hysteresis	%	<= 15	<= 15
Function Indication		Yes	Yes
Ambient Tempreture Range	°C	-25…+70	-25…+70
Polution Degree		3	3
IEC-Code		I1D12AP1	I1D12AP1
Time delay before availability	ms	< = 10	< = 10
Mechanical Data			
Housing Size	mm	Quadraform 40 x 26	Quadraform 40 x 26
Measurements BxHxT or DxT	mm	12 x 40 x 26	12 x 40 x 26
Housing Material		PA 12	PA 12
Material Sensing Face		PA 12	PA 12
Degree of Protection		IP67	IP67
Connection		Cable	Cable
Cable Type		LiYY-O, 3x0,34mm²	LiYY-O, 3x0,34mm²
Electrical Data			
Current Type		DC	DC
Wiring		3-Wire	3-Wire
Switching Function		Normally-Open	Normally-Open
Output Signal		PNP	NPN
Rated Operational Voltage	V	24 DC	24 DC
Rated Operational Current	mA	200	200
Supply Voltage	V	10…30 DC	10…30 DC
Ripple	%	< = 15	< = 15
Rated Supply Frequency	Hz	DC	DC
Rated Supply Frequency	Hz	400	400
Minimum Operational Current	mA	0	0
No-Load Supply Current	mA	<= 9 / <=4	<= 9 / <=4
Off-State Current	µA	<= 80	<= 80
Voltage Drop	V	<= 2.5/-	<= 2.5/-
Short Circuit Protection		Yes	Yes
Reverse Polarity Protection		Yes	Yes
Connection		3m 3w PVC cable	3m 3w PVC Cable
EMV - ESD/RFI/Burst/IVW			

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brass	0.35...0.50
aluminum	0.30...0.45
stainless steel	0.60...1.00
nickel	0.65...0.75
cast iron	0.93...1.05