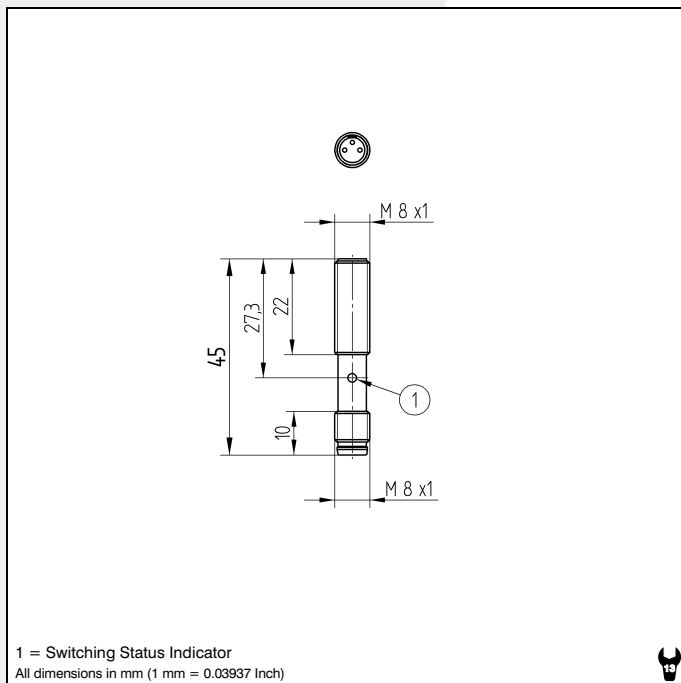


# Inductive Proximity Switch



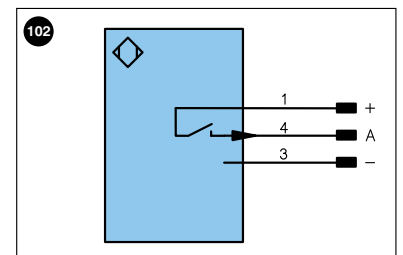
## IM020BM45VB8

Part Number  
Housing M, M8 x 1



### Technical Data

Inductive Data	
Switching Distance	2 mm
Correction Factors V2A / Brass / Al	0.73/0.55/0.45
Mounting	flush
Switching Hysteresis	< 15 %
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U <sub>b</sub> = 24V)	< 6 mA
Switching Frequency	1500 Hz
Temperature Drift	< 10 %
Temperature Range	-25...80 °C
Switching Output Voltage Drop	< 2,5 V
Switching Output / Switching Current	200 mA
Residual Current Switching Output	< 100 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Housing	BrasNicPlated
Full Encapsulation	yes
Degree of Protection	IP 67
Connection	M8 x 1
PNP NO	
Connection Diagram No.	102
Suitable Plug No.	



ME 61



#### Legend

+	Power supply "+"	U	Test input
-	Power supply "0V"	Ū	Test input inverted
~	Power supply (AC Voltage)	W	Trigger input
A	Switching output (1,2,3...) / NO	O	Analog output (1,2,3...)
Ā	Switching output (1,2,3...) / NC	O-	Ground for the analog output
V	Contamination / Error output (NO)	BZ	Block discharge
Ṽ	Contamination / Error output (NC)	AWV	Valve output
E	Input (analog or digital)	a	Valve control output "+"
T	Teach input	b	Valve control output "0V"
Z	Time delay (activation)	SY	Synchronization
S	Shielding	E+	Receiver-Line
RxD	RS-232 receive path	S+	Emitter-Line
TxD	RS-232 send path	≡	Grounding
RDY	Ready	SnR	Switching Distance Reduction
GND	Ground	USBD+	USB data +
CL	Clock	USBD-	USB data -
E/A	Output/Input programmable	Bus	Interfaces-Bus A(+)/B(-)
		La	Emitted light disengageable

#### Wire colors according to DIN IEC 757

BK	black
BN	brown
RD	red
OG	orange
YE	yellow
GN	green
BU	blue
VT	violet
GY	grey
WH	white
PK	pink
GNYE	green yellow