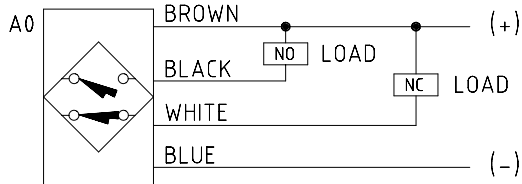


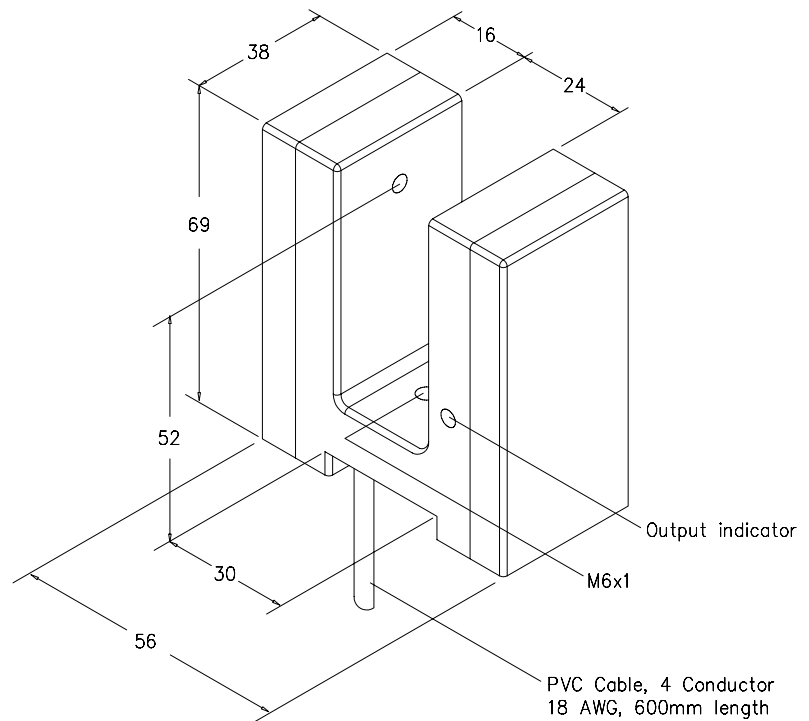
## WIRING DIAGRAM

4 Wire DC Cable Connection

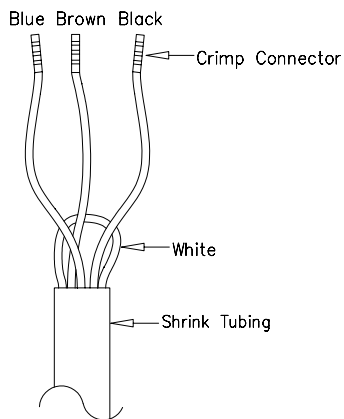
NPN Normally Open and Closed



## DIMENSIONS (mm)



## WIRING CONFIGURATION



## TECHNICAL DATA:

Supply Voltage Range	10-60VDC $\pm 10\%$ ripple
Reverse Polarity Protection	Yes
Current Consumption	< 25mA
Output Type	Two complementary transistors, NPN open collector
Output Current (max.)	100mA
Output Voltage (max.)	60VDC
Output Leakage Current	< 10 $\mu$ A
Output Indication (Target Present)	Red LED
Short Circuit and Overload Protection	Not Incorporated
Voltage Drop (Across Sensor)	< 0.5V
Minimum Target Size	6mm x 6mm
Repeatability	$\pm 1.5$ mm
Switching Frequency (max.)	100 Hz
Readiness Delay (@ Power Up)	< 10ms
Operating Temperature Range	-25°C to +55°C
Storage Temperature Range	-30°C to +70°C
Light Source	IR LED, 950nm
Ambient Light Immunity (No I.R. Filter Required)	3,000 LUX, Fluorescent 10,000 LUX, Sunlight
Transient Protection	Per IEC 1000-4
Housing Material	Flame retardant ABS, Black
Housing Flamability Rating	UL94 V-0
Housing Footprint	56mm X 38mm
Housing Slot Width	24mm
Lens Material	Lexan 943A
Approvals/Certifications	UL, CSA, CE - must be connected to CLASS II source.
Connection Method	Cable, Grey PVC Jacket, 18 AWG, 4 Cond., (Brn, Blk, Wht, & Blu), 600mm length
Cable Rating	UL, CSA, 300V
Environmental Protection	IP65
MTBF	100,000 hrs.

Confidential according to ISO 16016

Only valid as long as released in EDM or with a valid production documentation!

scale: NONE | date:2003-OCT-20

**PEPPERL+FUCHS**

DATA SHEET FOR  
OBE24-S1-A0-Y93828

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sheet 1 of 1