# VT18-8-H-120-M/30/40a/65b/118



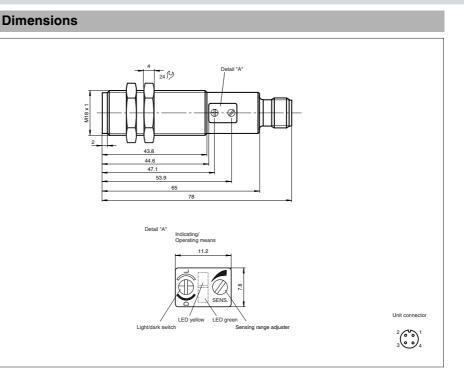
#### **Model Number**

#### VT18-8-H-120-M/30/40a/65b/118

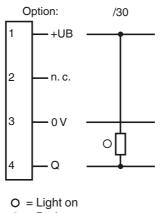
Background suppression sensor with 4-pin, M12 x 1 connector

#### **Features**

- Adjustable background suppression
- Array control panel with highly visible ٠ LED display
- Flashing power on LED in case of • short-circuit
- Multiple device installation possible, • no mutual interference (no cross-talk)
- Not sensitive to ambient light, even ٠ with switched energy saving lamps
- Protection class II •



### **Electrical connection**





#### Pinout



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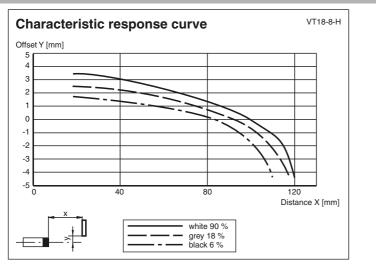
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Technical data		
General specifications		
Detection range		20 120 mm , adjustable
Detection range min.		20 40 mm
Detection range max.		20 120 mm
Light source		LED
Light type		modulated visible red light 660 nm
Black/White difference (6 %/90 %	)	< 10 % at a distance of 120 mm
Diameter of the light spot		approx. 6 mm at a distance of 120 mm
Optical face		frontal
Ambient light limit		30000 Lux
Functional safety related param	eters	
MTTFd		860 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green, flashes in case of short-circuit
Function indicator		LED yellow, lights up with receiver lit
Control elements		Sensing range adjuster, light-on/dark-on changeover switch
Electrical specifications		
Operating voltage	U <sub>B</sub>	10 30 V DC
Ripple	- D	10 %
No-load supply current	I <sub>0</sub>	< 35 mA
Protection class	0	II, rated voltage $\leq$ 50 V AC with pollution degree 1-2 according
		to IEC 60664-1
Output		
Switching type		light/dark on, switchable
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		30 V DC
Switching current		max. 200 mA
Switching frequency	f	500 Hz
Response time		1 ms
Ambient conditions		
Ambient temperature		-25 70 °C (-13 158 °F)
Storage temperature		-30 70 °C (-22 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		4-pin, M12 x 1 connector
Material		
Housing		brass, nickel-plated
Optical face		РММА
Mass		60 g
Compliance with standards and directives		
Directive conformity		EMC Directive 2004/108/EC
Standard conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
CE conformity		yes
UL approval		cULus Listed, Type 1 enclosure
CCC approval		CCC approval / marking not required for products rated $\leq$ 36 V
Curves/Diagrams		

## Curves/Diagrams



Release date: 2018-07-27 11:38 Date of issue: 2018-07-27 800187\_eng.xml

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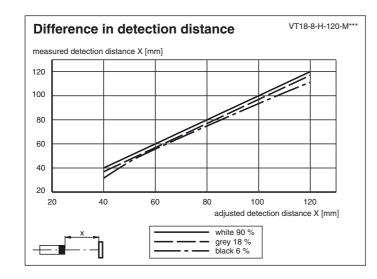
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