

# Specifications

## Eaton 135677

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=150mm, 4L, 10-30VDC, dark, NPN, PNP, M30, metal, M12

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E58 Diffuse reflective sensor
<b>CATALOG NUMBER</b>	135677
<b>MODEL CODE</b>	E58-30DP150-HDP
<b>EAN</b>	4015081324705
<b>PRODUCT LENGTH/DEPTH</b>	228.6 mm
<b>PRODUCT HEIGHT</b>	44.45 mm
<b>PRODUCT WIDTH</b>	152.4 mm
<b>PRODUCT WEIGHT</b>	0.45 kg
<b>CERTIFICATIONS</b>	CSA File No.: UL report applies to both US and Canada CE UL File No.: E166051 IEC/EN 60947-5-2 UL UL 508 UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada CSA-C22.2 No. 14

## Product specifications

<b>TYPE</b>	Optical sensors
<b>ELECTRIC CONNECTION TYPE</b>	Plug-in connection
<b>FITTED WITH:</b>	Background suppression (Perfect Prox)
<b>ENCLOSURE MATERIAL</b>	Metal
<b>ENCLOSURE TYPE</b>	Cylinder, screw-thread
<b>OPERATING MODE</b>	Switching principle: Dark switching
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>FUNCTIONS</b>	Short-circuit protection Reflected-light beam Protection against polarity reversal Protection against wire breakage
<b>VOLTAGE TYPE</b>	DC
<b>WIRE SIZE</b>	0
<b>CONNECTION TYPE</b>	4-wire Plug-in connection M12 x 1
<b>CABLE SHEATH MATERIAL</b>	Other
<b>LIGHT TYPE</b>	Other
<b>DEGREE OF PROTECTION</b>	NEMA 6 IP68
<b>INTERFACE TYPE</b>	Other
<b>LED INDICATOR</b>	Status indication of Switching state: Red LED
<b>SWITCH FUNCTION TYPE</b>	Other
<b>LOAD CURRENT</b>	Max. 100 mA (Ie)
<b>LASER PROTECTION CLASS</b>	None
<b>OPERATION AGENT-SAFETY CLASS</b>	Safety class 2
<b>SHOCK RESISTANCE</b>	100 g, Mechanical, Shock duration 3 ms
<b>OPTICAL SURFACE MATERIAL</b>	Glass
<b>OUTPUT CURRENT (MA) - MAX</b>	100 mA
<b>OUTPUT CURRENT AT</b>	0 mA

## Resources

<b>CATALOGUES</b>	<a href="#">Product Range Catalog Sensors – products, basic information, applications</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004657.pdf</a> <a href="#">DA-DC-00004652.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-proximity-switches-e58-diffuse-reflective-sensor-dimensions-002.eps</a> <a href="#">eaton-proximity-switches-e58-diffuse-reflective-sensor-3d-drawing.eps</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05305003Z</a>

<b>PROTECTED OUTPUT - MAX</b>	
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	30 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	10 V
<b>RATED SWITCHING DISTANCE (SN)</b>	150 mm
<b>REFLECTOR DISTANCE - MIN</b>	0 mm
<b>SENSOR HEIGHT</b>	0 mm
<b>SENSOR LENGTH</b>	111 mm
<b>SWITCHING DISTANCE - MAX</b>	165 mm
<b>SWITCHING VOLTAGE OF OSSD AT STATE HIGH</b>	30 V
<b>TRANSMISSION RANGE OF THE SAFETY FIELD</b>	0 m
<b>VOLTAGE RATING - MAX</b>	30 V
<b>SAFETY TYPE (IEC 61496-1)</b>	1
<b>SWITCHING FREQUENCY</b>	312 Hz
<b>SENSING MODE</b>	Dark switching
<b>SWITCHING OUTPUT TYPE</b>	NPN
<b>SENSOR MATERIAL</b>	Stainless steel
<b>TRIANGULATION</b>	Background fade-out
<b>WAVELENGTH OF THE SENSOR</b>	660 nm
<b>WIDTH SENSOR</b>	0 mm
<b>PRODUCT CATEGORY</b>	E58 Harsh Duty Series
<b>RESPONSE TIME</b>	1.6 ms

ADJUSTMENT RANGE - MAX	150 mm
ADJUSTMENT RANGE - MIN	0 mm
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	30 mm
LIGHT DOT SIZE	0 mm <sup>2</sup>
NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION	0
NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)	0
NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)	0
NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)	2
OPERATING DISTANCE - MAX	0 mm
OPERATING DISTANCE - MIN	0 mm
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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