

Specifications

Eaton 13104AQD07

Eaton Moeller® series Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, PNP, NPN, M18, insulated material, M12, Beam: straight



General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13104AQD07
MODEL CODE	13104AQD07
UPC	782113843643
EAN	4015081323982
PRODUCT LENGTH/DEPTH	127 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	152.4 mm
PRODUCT WEIGHT	0.094 kg
WARRANTY	3 year
CERTIFICATIONS	cUL Recognized UL Recognized UL 508 CSA Class No.: 3211-07 UL CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7 UL File No.: E117028 IEC/EN 60947-5-2 CSA CE CSA File No.: 50513

Product specifications

TYPE	Optical sensors
CONTACT RATING	100 mA PNP, 250 mA NPN at 10-30 Vdc
FEATURES	Straight beam
ELECTRIC CONNECTION TYPE	Connector M12
FITTED WITH:	Background suppression (Perfect Prox)
ENCLOSURE MATERIAL	Polyurethane foam (RIM) Plastic
ENCLOSURE TYPE	Cylinder, screw-thread
OPERATING MODE	Switching principle: Adjustable bright/dark switching
CONNECTION	M12
CONTACT CONFIGURATION	NPN and PNP open collector
SERIES	Comet
EXPLOSION SAFETY CATEGORY FOR DUST	None
SENSOR TYPE	Back ground suppression
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Protection against polarity reversal Short-circuit protection Reflected-light beam
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	NEMA 6 IP67
INTERFACE TYPE	Other
LED INDICATOR	Output ON Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Programmable/configurable
LOAD CURRENT	Max. 100 mA (Ie, PNP) Max. 250 mA (Ie, NPN, 120 > 50°C)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	100 g, Mechanical, Shock duration 3 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) -	250 mA

Resources

CATALOGS	Product Range Catalog Sensors – products, basic information, applications
DECLARATIONS OF CONFORMITY	DA-DC-00004652.pdf DA-DC-00004657.pdf 1360DIM-188 eaton-proximity-switches-dimensions-002.eps eaton-proximity-switches-dimensions-007.eps
DRAWINGS	1360DIM-193 eaton-proximity-switches-3d-drawing-004.eps 1360DRW-32
INSTALLATION INSTRUCTIONS	IL05305002Z DA-CS-90 28267 110 eaton-cadenas-side view-90 28267 110 side.pra eaton-cadenas-front view-90 28267 110 front.pra eaton-cadenas-path-sensoren-assemblies-90 28267 110 asmtpl.prj
MCAD MODEL	DA-CD-90 28267 110
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13104AQD07

MAX	
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	50 mm
REFLECTOR DISTANCE - MIN	0 mm
SENSOR HEIGHT	0 mm
SENSOR LENGTH	66 mm
SWITCHING DISTANCE - MAX	50 mm
SWITCHING VOLTAGE OF OSSD AT STATE HIGH	30 V
TRANSMISSION RANGE OF THE SAFETY FIELD	0 m
VOLTAGE RATING - MAX	30 V
SAFETY TYPE (IEC 61496-1)	1
SWITCHING FREQUENCY	500 Hz
SENSING MODE	Light-/dark switching
SWITCHING OUTPUT TYPE	PNP/NPN
SENSOR MATERIAL	Insulated material
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	0 nm
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	Comet Series
NUMBER OF PINS	4
PROTECTION	Auto reset short circuit
RESPONSE TIME	1 ms
MAXIMUM DC CURRENT	100 mA PNP, 250 mA NPN
ADJUSTMENT RANGE - MAX	0 mm
ADJUSTMENT RANGE - MIN	0 mm

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	18 mm
LIGHT DOT SIZE	0 mm ²
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
OPERATING TEMPERATURE - MAX	158 °F
OPERATING TEMPERATURE - MIN	-40 °F
OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	30 A
ENVIRONMENTAL RATING	NEMA 1, NEMA 3, NEMA 4, NEMA 4X, NEMA 6, NEMA 12, NEMA 13, IP69K
ADJUSTMENT TYPE	Other

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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CONTACT CONFIGURATION	NPN and PNP open collector
SERIES	Comet
EXPLOSION SAFETY CATEGORY FOR DUST	None
SENSOR TYPE	Back ground suppression
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Protection against polarity reversal Short-circuit protection Reflected-light beam
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	NEMA 6 IP67
INTERFACE TYPE	Other
LED INDICATOR	Output ON Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Programmable/configurable
LOAD CURRENT	Max. 100 mA (Ie, PNP) Max. 250 mA (Ie, NPN, 120 > 50°C)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	100 g, Mechanical, Shock duration 3 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) -	250 mA

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SENSOR HEIGHT	0 mm
SENSOR LENGTH	66 mm
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VOLTAGE RATING - MAX	30 V
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SWITCHING FREQUENCY	500 Hz
SENSING MODE	Light-/dark switching
SWITCHING OUTPUT TYPE	PNP/NPN
SENSOR MATERIAL	Insulated material
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	0 nm
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	Comet Series
NUMBER OF PINS	4
PROTECTION	Auto reset short circuit
RESPONSE TIME	1 ms
MAXIMUM DC CURRENT	100 mA PNP, 250 mA NPN
ADJUSTMENT RANGE - MAX	0 mm
ADJUSTMENT RANGE - MIN	0 mm

AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	18 mm
LIGHT DOT SIZE	0 mm ²
NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION	0
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ADJUSTMENT TYPE	Other

PROJECT NAME:

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