## **DATASHEET - LS-11DA**

Position switch, Rounded plunger, Basic device, expandable, 1 N/O, 1 NC (late-break), Cage Clamp, Yellow, Insulated material, -25 - +70 °C, version A



Part no.	LS-11DA
	292361
EL Number	4315234
(Norway)	

## **General specifications**

General specifications	
Product name	Eaton Moeller® series LS Position switch
Part no.	LS-11DA
EAN	4015082923617
Product Length/Depth	33.5 millimetre
Product height	76.5 millimetre
Product width	31 millimetre
Product weight	0.05 kilogram
Certifications	UL 508 CSA File No.: 012528 IEC/EN 60947-5 CSA Class No.: 3211-03 CSA-C22.2 No. 14 UL File No.: E29184 CSA CE UL UL Category Control No.: NKCR IEC/EN 60947
Product Tradename	LS
Product Type	Position switch
Product Sub Type	None
Catalog Notes	Accessories for the Cage-Clamp terminals from Wago:power comb, gray, Wago Article No. 264-402 Cage-Clamp is a registered trademark of Wago Kontakttechnik, 32432 Minden, Germany Contacts with safety function, by positive opening to IEC/EN 60947-5-1
Features & Functions	
Electric connection type	Cable entry metrical
Enclosure color	Yellow Cover
Enclosure material	Plastic Insulated material
Features	Forced opening Positive opening Expandable
Switch function type	Slow-action switch
General information	
Connection type	Cage Clamp
Degree of protection	IP66/IP67 NEMA Other
Lifespan	8,000,000 mechanical Operations
Operating frequency	6000 Operations/h
Overvoltage category	III.
Pollution degree	3
Product category	Rounded plunger
Rated impulse withstand voltage (Uimp)	4000 V AC
Repetition accuracy	0.15 mm (Contacts/switching capacity)
Suitable for	Safety functions
Туре	Safety position switch
Ambient conditions, mechanical	
Mounting position	As required
Shock resistance	25 g, Standard-action contact, Mechanical, Half-sinusoidal shock 20 ms
Temperature resistance	100 °C, Contact temperature of roller head

Ambient operature - min         3400         35°°           Ambient operature - max         7°°           Dimatic proofing         Bamp heat, cycle, the LGE 00088-2-38           Terminal capacity (theshie with formle)         1×(15-15) ma <sup>2</sup> Terminal capacity (theshie with formle)         1×(15-25) ma <sup>2</sup> Rated conditional short-circuit current (le) AC-15, 200 V, 200 V 240 V         400 V           Rated operational current (le) AC-15, 200 V, 200 V 240 V         6A           Rated operational current (le) AC-15, 200 V, 200 V 240 V         6A           Rated operational current (le) AC-15, 200 V, 200 V         6A           Rated operational current (le) AD-13, 110 V         0&A           Rated operational current (le) AD-13, 110 V         0&A           Rated operational current (le) AD-13, 200 V, 200 V         0A           Rated operational current (le) AD-13, 200 V, 200 V         0A           Rated operational current (le) AD-13, 200 V, 200 V         0A           Rated operational current (le) AD-13, 200 V, 200 V         0A           Actuating forea at beginninglend of stake         0A	Climatic environmental conditions	
Advantage space spaceN TDimic parallelDimic parallel (COMPACE)Finnial capacitiesDimic parallel (COMPACE)Finnial capacitiesLSA 1-10 mm²Finnial parallel (Salo)LSA 1-10 mm²Final parallel (Salo)LSA 1-10		_25 °C
Initial capacitiesProvide Sub 201Initial capacitiesInitial capacitie		
Tennial capacity (hishin sub format)         Employ (applicity) (ED 0008 2-20           Tennial capacity (hishin sub format)         1x (25 - 15) µm <sup>2</sup> Tennial capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Tennial capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 - 25) µm <sup>2</sup> Finder capacity (hishin sub format)         1x (25 -		
Instant space (stable space		
Turnind capacity (solid)1 (16 - 23) m <sup>2</sup> Electrical insing1Brand national about (sciencers (i))1.4Brand national about (sciencers (i))1.4Brand national about (sciencers (i))6.4Brand national about (sciencers (i))6.4Brand national (i)1.4Brand national (ii)1.4Brand national (ii)1.4Brand national (ii)1.4Brand national (iii)1.4Brand national (iii)1.4Brand national (iii)1.4Brand national (iii)1.4Brand national (iii)1.4Brand national (iiii)1.4Brand national (iiii)1.4Brand national (iiii)1.4Brand national (iiiii)1.4Brand national (iiiii)1.4Brand national (iiiii)1.4Brand national (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Terminal capacities	
Electical rating         Ide           Reade continuous durines (durines (durine	Terminal capacity (flexible with ferrule)	1 x (0.5 - 1.5) mm <sup>2</sup>
Field conditional short circuit current (i) d         IA           Back dipercisional current (i) at ACD 5, 201 V.201 V.201 V         IA           Read opercisional current (i) at ACD 5, 201 V.201 V.201 V         IA           Read opercisional current (i) at ACD 5, 201 V.201 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Read opercisional current (i) at ACD 15, 202 V.201 V         IA           Actuating force at bigining inden of straice         IA           Actuating force at current (inden inden of straice         IA           Actuating force at current (inden inden of straice         IA           Actuating force at curent (inden inden of straice         IA	Terminal capacity (solid)	1 x (0.5 - 2.5) mm <sup>2</sup>
Rest incluion voluge (b)         No           Rest operational current (b) 42.05, 320 V, 200 V, 20	Electrical rating	
Ratic operational current (b) at 26-15, 220, V20, V20, V20, V20, V20, V20, V20	Rated conditional short-circuit current (Ig)	1 kA
Rated operational current (ii) an AC-15, 24 V         6 A           Rated operational current (iii) an AC-15, 26 V, 40 V, 45 V         4 A           Rated operational current (iii) an DC-13, 12 V         6 A           Rated operational current (iii) an DC-13, 22 V, 220 V         6 A           Rated operational current (iii) an DC-13, 22 V, 220 V         6 A           Stand operational current (iii) an DC-13, 22 V, 220 V         6 A           Stand operational current (iii) an DC-13, 22 V, 220 V         6 A           Stand operational current (iii) an DC-13, 22 V, 220 V         6 A           Stand operational current (iii) an DC-13, 22 V, 220 V         6 A           Stand operational current (iii) an DC-13, 22 V, 220 V         6 A           Attacting force at beginninglend of strale         6 A           Attacting force at beginninglend of strale         6 A           Attacting force at beginninglend of strale         6 D           Attacting force at beginninglend of strale         7 D           Attacting force at beginninglend of strale         1 Halves per 500,000 switching operations (stratecicia)	Rated insulation voltage (Ui)	400 V
Rate operational current (i) el 12-13, 10V         44.           Bate operational current (i) el 10-13, 10V         65.A           Bate operational current (i) el 10-13, 20V, 200V         65.A           Rate operational current (i) el 10-13, 20V, 200V         63.A           Subor operational current (i) el 10-13, 20V, 200V         63.A           Subor trictul protection rating         63.A           Subor trictul protection rating         63.A           Actuator trips         70.B           Optiming gened         13.N(5.D N           Control circut misbility         70.B           Number of caranets (ohmey-over contacts)         70.B           Number of caranets (ohmey-over contacts)         70.B           Number of caranets (ohmey-over contacts)         70.B           State displation, current-dependent Pvid         70.B           Explainer missing optiming current-dependent Pvid         70.B           State displation current-dependent Pvid         70.B           State displation current-dependent Pvid	Rated operational current (le) at AC-15, 220 V, 230 V, 240 V	6 A
Rand operational current (ii) an DC-13, 10 V         D6 A           Rand operational current (iii) an DC-13, 15 V         D6 A           Rand operational current (iii) an DC-13, 15 V         D6 A           Rand operational current (iii) an DC-13, 24 V         D6 A           Short-circuit protection rating         DC-13, 24 V           Short-circuit protection rating         DC-13, 24 V           Actuating force at bagbiningled of arolva         DC           Durating speed         Durating speed           Control circuit reliability         Table per 1000000 switching operators (Statistically determined, at 24 V DC5 Null N           Number of contracts (bange over centracts)         Null N           Number of contracts (bange over centracts)         Null N           Deliabio aridy cytope or transcell         Null N           Deliabio aridy cytope or contracts)         Null N <t< td=""><td>Rated operational current (le) at AC-15, 24 V</td><td>6 A</td></t<>	Rated operational current (le) at AC-15, 24 V	6 A
Rated operational current life at DC-13, 23 V         000000000000000000000000000000000000	Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	4 A
Rated operational current (be) at DC-13, 24 V         03 A           Short circuit protection ratio         3A           Short circuit protection ratio         Max. 40 ApGity, Fues, Contacts           Syphy frequency         Max. 40 ApGity, Fues, Contacts           Actuator         Max. 40 ApGity, Fues, Contacts           Actuating force at beginninged of stroke         Paraget           Control circuit reliability         Max. V0. Mix (Wb DIN cam, machanical actuation)           Attacts for paraget of stratistical dataget         I failure per 14000.000 stroking operations (Statistically determined, at SV DDS in Na           Number of contacts (chang-over contacts)         I failure per 14000.000 stroking operations (Statistically determined, at SV DCD in Na           State (carget por for dat)         I failure per 14000.000 stroking operations (Statistically determined, at SV DCD in Na           State (carget por for dat)         I failure per 14000.000 stroking operations (Statististically determined, at SV DCD in Na	Rated operational current (Ie) at DC-13, 110 V	0.6 A
Rade operational corrent lie) at DC-12, 24 V       Image: Particular correction protection rang       Max. RA 40(Hz, Granz, Cortacts         Supply frequency       Max. 400 Hz, Cortacts       Max. 400 Hz, Cortacts         Actuating force at beginning lend of strabe       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Actuating force at beginning lend of strabe       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Actuating force at beginning lend of strabe       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Actuating force at beginning lend of strabe       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Actuating force at beginning lend of strabe       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Actuating force at beginners (Particular Strategy)       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Number of contacts (Particular Strategy)       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Strate of contacts (Particular Strategy)       Particular Strategy (Particular Strategy)       Particular Strategy (Particular Strategy)         Number of contacts (Particular Strategy)       Particular Strategy (Particular Strategy)       Particular Strategy)	Rated operational current (le) at DC-13, 125 V	0.8 A
Short-circuit protection rating     Max. 8.4 gB(gL, Fue, Contacts       Supply frequency     Max. 400 Hz, Contacts       Actuating force a beginning/und of stroke     10 MBD. N       Actuating force a toginning/und of stroke     22 Mm       Actuating force at toginning/und of stroke     22 Mm       Actuating force at toginning/und of stroke     22 Mm       Control circuit reliability     20 Mm       Number of contacts (homeal-y-over contacts)     1       Number of contacts (homeal-y classed contacts)     1       Statey     0     None       Explosion assistiv category for dus     0     0       Number of contacts (homeal-y classed on fuels)     0     0       Nead (stappator) non- current-dependent Pvid     0     0       Bacility attripy tor gas     0     0       State bacility category for dus     0     0       Dis2 Oronin statistical     0     0	Rated operational current (Ie) at DC-13, 220 V, 230 V	0.3 A
Supply frequencyNote 400 Hz, ContactsActuatorNameActuating force at beginninglend of strokeNameActuating force at beginninglend of strokeNameActuating torge of ctarby divesDay NameActuation torge of ctarby divesPungarContractsPungarContract (cruit reliabilityInlive per 1000000 switching operations (Statistically determined, at 24 VDDSNumber of contracts (homape-over contacts)Inlive per 1000000 switching operations (Statistically determined, at 24 VDDSNumber of contracts (homape-over contacts)Inlive per 1000000 switching operations (Statistically determined, at 24 VDDSNumber of contracts (homape-over contacts)Inlive per 1000000 switching operations (Statistically determined, at 24 VDDSNumber of contracts (homape-over contacts)NoneSteftyNonePalosion safety category for gasNoneExplosion safety category for gasNoneBuilden statistically determined, at 24 VDDSNoneRatid sizeption, carrent-dependent PvidNoneBuilden statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined, at 24 VDDSNoneRatid sizeption carrent or specified statistically determined,	Rated operational current (le) at DC-13, 24 V	3 A
Actuating force at beginning/end of stroke Actuating torgue of rotary drives Actuatory ya Deprinting speed Deprinting speed Contacts Definiting speed Contacts Control circuit reliability Influer per 10000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 1000000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically determined, at SV DCS Influer per 100000 switching operations [Straissically de	Short-circuit protection rating	Max. 6 A gG/gL, Fuse, Contacts
Actuating force at beginninglend of stroke Actuating forque of rotary drives Actuating troque of rotary drives Actuating tropue of rotary driv	Supply frequency	Max. 400 Hz, Contacts
Actuating torque of rotary drives         D2 N m           Actuator ype         Duraging speed           Operating speed         Mainter per 10,000,000 switching operations (Statistically determined, at 24 VDC)5 m/A/           Contracts         Initiarup per 10,000,000 switching operations (Statistically determined, at 24 VDC)5 m/A/           Number of contacts (change-over contacts)         0           Number of contacts (change-over contacts)         0           Number of contacts (change-over contacts)         0           Safety         0           Explosion safety category for gas         0           Design verification         0           Design verification         0           Read operation (spatiant)         0           Nome         0           Read operation (statistically determined, at 24 VDC)         1           Safety         0           Safety         0           Bosing serification         0           Read operation (statistically determined, at 24 VDC)         1           Read operation (statistically determined, at 24 VDC)         1           Bosing serification         0         0           Bosing serification         0         0           Bosing serification         0         0         0	Actuator	
Actuating torque of rotary drives         D2 N m           Actuator ype         Duraging speed           Operating speed         Mainter per 10,000,000 switching operations (Statistically determined, at 24 VDC)5 m/A/           Contracts         Initiarup per 10,000,000 switching operations (Statistically determined, at 24 VDC)5 m/A/           Number of contacts (change-over contacts)         0           Number of contacts (change-over contacts)         0           Number of contacts (change-over contacts)         0           Safety         0           Explosion safety category for gas         0           Design verification         0           Design verification         0           Read operation (spatiant)         0           Nome         0           Read operation (statistically determined, at 24 VDC)         1           Safety         0           Safety         0           Bosing serification         0           Read operation (statistically determined, at 24 VDC)         1           Read operation (statistically determined, at 24 VDC)         1           Bosing serification         0         0           Bosing serification         0         0           Bosing serification         0         0         0	Actuating force at beginning/end of stroke	1.0 N/8.0 N
Operating speed         Max 10.5 m/s (with DIN cam, mechanical actuation)           Contracts         Contract of actuation a - 0730 <sup>P</sup> Control circuit reliability         Tailure per 10.000.000 switching operations (Statistically determined, at 24 VDC/s mA)           Number of contacts (chamge-over contacts)         O           Number of contacts (chamge-over contacts)         O           Number of contacts (normally closed contacts)         O           States         Number of contacts (normally open contacts)         None           States         None         None           Explosion safety category for dust         None         None           Design verification         OW         None           Explosion safety category for dust         OW         None           Heat dissipation capacity Pdiss         OW         None           Heat dissipation carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         Genes the product standard's requirements.           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         Genes the product standard's requirements.		
Operating speed         Max 10.5 m/s (with DIN cam, mechanical actuation)           Contracts         Contract of actuation a - 0730 <sup>P</sup> Control circuit reliability         Tailure per 10.000.000 switching operations (Statistically determined, at 24 VDC/s mA)           Number of contacts (chamge-over contacts)         O           Number of contacts (chamge-over contacts)         O           Number of contacts (normally closed contacts)         O           States         Number of contacts (normally open contacts)         None           States         None         None           Explosion safety category for dust         None         None           Design verification         OW         None           Explosion safety category for dust         OW         None           Heat dissipation capacity Pdiss         OW         None           Heat dissipation carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         OW         None           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         Genes the product standard's requirements.           ID 2.22 Origin server (normaly epen carrent-dependent Pvid         Genes the product standard's requirements.		Plunger
Contract is         For angle of actuation a = 0*30*           Contract is closed or isolation a = 0*30*         Infaire per 1000000 switching operations (Statistically determined, at 24 VDC/s mail respective)           Number of contacts (chonge-over contacts)         Infaire per 1000000 switching operations (Statistically determined, at 24 VDC/s mail respective)           Number of contacts (chonge-over contacts)         Infaire per 1000000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 1000000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 1000000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VDC/s mail respective)           States         Infaire per 100000 switching operations (Statistically determined, at 24 VD		Max. 1/0.5 m/s (with DIN cam, mechanical actuation)
Control circuit reliability       I failure per 10.000.000 switching operations (Statistically determined, at 24 VDC/I NA)         Number of contacts (change-over contacts)       0         Number of contacts (normally closed contacts)       1         Number of contacts (normally closed contacts)       1         Stefty       1         Explosion safety category for gas       None         Explosion safety category for dust       None         Design verification       0         Equipment heat dissipation current-dependent Pvid       0         Heat dissipation par pole, current-dependent Pvid       0         Read oparational current for specified heat dissipation (nn)       0         102.22 Corrosion resistance       0         102.32 Nerification       Meets the product standard's requirements.         102.32 Verification of memal stability of enclosures       Meets the product standard's requirements.         102.32 Verification of resistance of insulating materials to normal heat       Meets the product standard's requirements.         102.32 Nerification of assemblies       Meets the product standard's requirements.         102.32 Resistance to ultre-violet (UV) radiation       Meets the product standard's requirements.         102.32 Resistance to ultre-violet (UV) radiation       Meets the product standard's requirements.         102.32 Resistance to ultre-violet		
Number of contacts (change-over contacts)         Image: Prior Statustic contacts)           Number of contacts (normally closed contacts)         Image: Prior Statustic contacts)           Number of contacts (normally closed contacts)         Image: Prior Statustic contacts)           States         Image: Prior Statustic Contacts)           States         None           States         None           Replosion safety category for dust         None           Design verification         None           Read dissipation capacity Pdiss         OW           Read dissipation capacity Pdiss         OW           Read dissipation capacity Pdiss         OW           Read contacts formall besident Priod         OW           10.22 Corrosion resistance         OW           10.23 Aresistance for statusting materials to normal head         Meets the product standard's requirements.           10.23 Aresistance for statusting materials to normal head         Des not apply, since the entire switchgear needs to be evaluated.           10.24 Resistance to ultra-violet (UV) radiation         Des not apply, since the entire switchgear needs to be evaluated.           10.23 Resistance to ultra-violet (UV) radiation         Des not apply, since the entire switchgear needs to be evaluated.           10.23 Resistance to ultra-violet (UV) radiation         Des not apply, since the entire switchgear needs to be evaluated. </td <td>Contacts</td> <td></td>	Contacts	
Induce per Sp00_000 switching operations (statistically determined, at SV DC/.           Number of contacts (homaly closed contacts)         0           Number of contacts (normally closed contacts)         1           Stafey         0           Explosion safety category for gas         0           Explosion safety category for dast         0           Persion safety category for dast         0           Explosion safety category for dast         0           Read dissipation, current-dependent Pvid         0           Read dissipation, current-dependent Pvid         0           Read dissipation, non-current-dependent Pvid         0           Read dissipation, non-current-dependent Pvid         0           Read dissipation, non-current-dependent Pvid         0           Read dissipation dire dissipation flam         0           Read dissipation resistance of insulating metratist to normal head         0           Read dissipation dire dissipation flam         0           Read dissipation dire dissipation dir	Control circuit reliability	
Number of contacts (change-over contacts)         I         I           Number of contacts (normally closed contacts)         I         I           Number of contacts (normally copen contacts)         I         I           Safety         I         I         I           Explosion safety category for gas         None         None           Explosion safety category for dust         None         I           Design verification         None         I           Rated operational current-dependent Pvid         IV         IV           Rated operational current for specified heat dissipation (In)         IV         IV           Static heat dissipation, current-dependent Pvid         IV         IV           Rated operational current for specified heat dissipation (In)         IV         IV           Static heat dissipation, nor-current-dependent Pvid         IV         IV           IO2.2 Corrosion resistance of insulating materials to normal heat         IV         IV           IO2.3 Resist of insul. mat to abnormal heat/fire by internal elect effects         IV         IV           IO2.4 Resistance ou lura-violet (UV) radiation         IV         IV         IV           IO2.1 Resistance ou lura-violet (UV) radiation         IV         IV         IV           IO2.2 Resistance ou l		
Number of contacts (normally closed contacts)       I         Number of contacts (normally open contacts)       I         Safety       I         Explosion safety category for gas       I         Explosion safety category for dust       None         Design verification       V         Equipment heat dissipation, current-dependent Pvid       V         Heat dissipation capacity Pdiss       V         Rated operational current for specified heat dissipation (In)       I         Static heat dissipation, ourrent-dependent Pvid       V         Rated dissipation, ourrent-dependent Pvid       V         Rated dissipation, on-current-dependent Pvid       V         10.2.2 Corrosin resistance       V         10.2.3 Iverification of thermal stability of enclosures       W         10.2.3 Resist of insult mat. to abnormal heat/fire by internal elect. effects       Weets the product standard's requirements.         10.2.1 Kiring       Meets the product standard's requirements.         10.2.2 Inscriptions       Des not apply, since the entire switchgear needs to be evaluated.         10.2.1 Kiring       Des not apply, since the entire switchgear needs to be evaluated.         10.2.1 Kiring       Des not apply, since the entire switchgear needs to be evaluated.         10.2.2 Inscriptions       Dese not apply, since the entire switchgear n		
Number of contacts (normally open contacts)       Image: Contacts (normally open contacts)         Safety       Image: Contacts (normally open contacts)         Supposition safety category for gas       None         Explosion safety category for dust       None         Design verification       None         Equipment heat dissipation, current-dependent Pvid       Mumber of contacts)         Meat dissipation capacity Pdiss       0W         Read operational current for specified heat dissipation (In)       Safety         Static heat dissipation, ono-current-dependent Pvid       6A         10.2.2 Corrosion resistance       0W         10.2.3 Verification of thermal stability of enclosures       West the product standard's requirements.         10.2.3 Resist, of insul, mat to abnormal heat/fire by internal elect. effects       Meats the product standard's requirements.         10.2.3 Resist, of insul, mat to abnormal heat/fire by internal elect. effects       Des not apply, since the entire switchgear needs to be evaluated.         10.2.3 Lifting       Des not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       Des not apply, since the entire switchgear needs to be evaluated.         10.3.0 Repeat of protection of assemblies       Meats the product standard's requirements.         10.3.0 Repeat of protection of assemblies       Des not apply, since the entire switchgear needs to be evaluated.<		
Safety         More           Explosion safety category for gas         None           Explosion safety category for dust         None           Design verification         None           Equipment heat dissipation, current-dependent Pvid         None           Reat dissipation capacity Pdiss         W           Reat dissipation capacity Pdiss         W           Rated operational current for specified heat dissipation (In)         Static heat dissipation, non-current-dependent Pvid           10.2.2 Corrosion resistance         W           10.2.2 Corrosion resistance of insulting materials to normal heat         Meets the product standard's requirements.           10.2.3 Resist, of insul, mat to abnormal heat/fire by internal elect. effects         Meets the product standard's requirements.           10.2.2 Utification of thermal stability of enclosures         Meets the product standard's requirements.           10.2.3 Resist, of insul, mat to abnormal heat/fire by internal elect. effects         Meets the product standard's requirements.           10.2.5 Utifing         Des not apply, since the entire switchgear needs to be evaluated.           10.2.1 Starbigtion         Meets the product standard's requirements.           10.2.2 Utification of seemblies         Meets the product standard's requirements.           10.2.3 Resist, of insul, mat to abnormal heat/fire by internal elect. effects         Meets the product standard's r		
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10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
	10.5 Protection against electric shock	
10.7 Internal electrical circuits and connections Is the panel builder's responsibility.		Does not apply, since the entire switchgear needs to be evaluated.
	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.

10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 9.0**

## Sensors (EG000026) / End switch (EC000030)

Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related mechanical switch (sensor technology) / Safety position switch (Type 1) (ecl@ss13-27-27-26-01 [AKE640018])

Width sensor	mm	31
Diameter sensor	mm	0
Height of sensor	mm	61
Length of sensor	mm	33.5
Rated operation current le at AC-15, 24 V	А	6
Rated operation current le at AC-15, 125 V	А	6
Rated operation current le at AC-15, 230 V	А	6
Rated operation current le at DC-13, 24 V	А	3
Rated operation current le at DC-13, 125 V	А	0.8
Rated operation current le at DC-13, 230 V	А	0.3
Switching function		Slow-action switch
Switching function latching		No
Output electronic		No
Forced opening		Yes
Number of safety auxiliary contacts		1
Number of contacts as normally closed contact		1
Number of contacts as normally open contact		1
Number of contacts as change-over contact		0
Type of interface		None
Type of interface for safety communication		None
Construction type housing		Cuboid
Housing material		Plastic
Coating housing		Other
Type of control element		Plunger
Alignment of the control element		Roller cam straight
Type of electric connection		Cable entry metrical
With status indication		No
Suitable for safety functions		Yes
Explosion safety category for gas		None
Explosion safety category for dust		None
Ambient temperature during operating	°C	-25 - 70
Degree of protection (IP)		IP66/IP67
Degree of protection (NEMA)		Other