Limit switch box
SRBK-CA4-YR90-MW-1-1WG-C2-EX6

Part number: 8191216



Data sheet

Feature	Value
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK EX instructions To UK RoHS instructions
Explosion protection	Zone 0 (ATEX) Zone 0 (IEC-EX) Zone 0 (UKEX) Zone 1 (ATEX) Zone 1 (IEC-EX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 20 (ATEX) Zone 20 (IEC-EX) Zone 20 (UKEX) Zone 21 (ATEX) Zone 21 (IEC-EX) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 1G
Explosion ignition protection type for gas	Ex ia IIC T6 ...T4 Ga Ex ia IIC T6/T5/T4 Gb
ATEX category dust	II 1D
Explosion ignition protection type for dust	Ex ia IIIC T135°C Db Ex ia IIIC T200 135°C Da
Explosion protection certification outside the EU	EPL Da (GB) EPL Da (IEC-Ex) EPL Db (GB) EPL Db (IEC-EX) EPL Ga (GB) EPL Ga (IEC-EX) EPL Gb (GB) EPL Gb (IECEx)
Explosion ambient temperature	-20°C <= Ta <= +80°C
Max. input voltage Ui	See IECEx certificate
Max. input current Ii	See IECEx certificate
Max. input power Pi	See IECEx certificate
Effective internal inductivity Li	See IECEx certificate
Effective internal capacitance Ci	See IECEx certificate

Feature	Value
Max. intrinsically safe circuit input parameter	See IECEx certificate
Certificate issuing authority	Eurocert. 93927 FTZU 24 ATEX 0075 IECEx FTZU 24.0024
Note on materials	RoHS compliant
Safety Integrity Level (SIL)	SIL 3
Measured variable	Position
Measuring principle	mechanical/electrical
Sensing range	0 deg...90 deg
Ambient temperature	-20 °C...70 °C
Switching output	Contacting (gold)
Switching element function	Toggle switch, single-pin
Max. switching output voltage DC	30 V
Max. output current DC	100 mA
Max. switching capacity DC	3 W
Operational voltage range DC	0 V...30 V
Microswitch type	Omron SS-01
Electrical connection	Screw terminal
Electrical connection 1, connection type	Terminal strip
Electrical connection 1, cable outlet	Straight
Electrical connection 1, design	Square
Electrical connection 1, connector system	Screw terminal
Electrical connection 1, number of connections/cores	10
Connectable nominal cross section conductor	0.25 mm²...2.5 mm²
Cable fitting	M20x1.5
Dimensions (W x L x H)	130 mm x 85 mm x 128 mm 130 mm x 85 mm x 138 mm 130 mm x 85 mm x 158 mm 147 mm x 85 mm x 128 mm 147 mm x 85 mm x 138 mm
Type of mounting	in accordance with VDI/VDE 3845
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1 VDI/VDE 3845 size AA 2 VDI/VDE 3845 size AA 3
Mounting position	Any
Product weight	460 g
Housing colour	Black
Material housing	PA66, electrically conductive
Material seals	NBR
Material shaft	PA
Material screws	Stainless steel
Material mounting bracket	PA66, electrically conductive
Material snap ring	High-alloy stainless steel
Material disc	High-alloy stainless steel
Protective cap material	Makrolon®
Material mounting bridge	PA66, electrically conductive
Switching status indication	Optical
Position indicator	Yellow/red
Setting range of angular detection	0 deg...90 deg
Storage temperature	-20 °C...50 °C
Degree of protection	IP66 IP67
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Corrosion resistance class CRC	3 - high corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3