



Powering Business Worldwide

Tekniske data, komplette enheter

LS, LSM, LSE

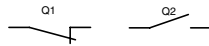
| | | | | IP66,IP67 komplette enheter | | | |
|-----------------------------------------------------------------------|-------------|------------------|-------------------|-----------------------------------------------------------------|----------------------------|----------------------------------------------|----------------------------|
| | | | | LS, LSM | LSE-11 LSE-02 | LSE-AI | LSE-AU |
| Generelt | | | | | | | |
| Forskrifter | | | | IEC/EN 60947 | IEC/EN 60947 EN 61000-4 | IEC/EN 60947 EN 61000-4 | IEC/EN 60947 EN 61000-4 |
| Klimafasthet | | | | Fuktig varme, konstant ihht. IEC 60068-2-78 | | Fuktig varme, periodisk ihht. IEC 60068-2-30 | |
| Omgivelsestemperatur | | | | -25...+70 | -25...+70 | -25...+70 | -25...+70 |
| Montasje posisjon | | | | Vilkårlig | Vilkårlig | Vilkårlig | Vilkårlig |
| Kaplingsgrad | | | | IP66, IP67 | IP66, IP67 | IP66, IP67 | IP66, IP67 |
| Tilkoblingstverrsnitt, skruklemmer og fjærklemmer | | | | | | | |
| Entrådet | | mm ² | | 1 x (0,5 - 2,5) | 1 x (0,5 - 2,5) | 1 x (0,5 - 2,5) | 1 x (0,5 - 2,5) |
| Flertrådet med hylse ihht. DIN 46228 | | mm ² | | 1 x (0,5 - 1,5) | 1 x (0,5 - 1,5) | 1 x (0,5 - 1,5) | 1 x (0,5 - 1,5) |
| Strømbane | | | | | | | |
| Merkespenning | | U _e | V DC | | 12 - 30 | 24 (-15%/+20%) | 24 (-15%/+20%) |
| Merkedriftsstrøm | | | | | | | |
| 12 V | | I _e | mA | | 15 | | |
| 24 V | | I _e | mA | | 18 | 28 - 45 | 24 |
| 30 V | | I | mA | | 19 | | |
| Kontakt-/bryteevne | | | | | | | |
| Merkestøtspenningsholdfasthet | | U _{imp} | VAC | 4000 | | | |
| Merkeisolasjonsspenning | | U _i | V | 400 | | | |
| Overspenningskategori/forurensningsgrad | | | | III/3 | III/3 | | |
| Merkedriftsstrøm | | | | | | | |
| AC-15 | 24 V | I _e | A | 6 | | | |
| | 230 V/240 V | I _e | A | 6 | | | |
| | 400 V/415 V | I _e | A | 4 | | | |
| DC-13 | 24 V | I _e | A | 3 | 0,2 | | |
| | 110 V | I _e | A | 0,8 | | | |
| | 220 V | I _e | A | 0,3 | | | |
| Analog utgang QJ | | | | | | | |
| Utgående spenning (max. 10 mA) | | | V DC | | | | 0 - 10 |
| Utgående strøm | | | mA | | | 4 - 20 | |
| Oppløsning | | | Steg | | | 100 | 100 |
| Stegtoleranse | | | Steg | | | 1 | 1 |
| Shunt-motstand, resitiv belastning | | | Ω | | | < 400 | > 1000 |
| Digital diagnostikk avgang | | | Q2 | | | | |
| Normal drift | | | V | | | ca. U _e | ca. U _e |
| | | | mA | | | < 200 | < 200 |
| Styrekrets pålitelighet | | | | | | | |
| ved 24 V DC/5 mA | | H _F | Feil-sansynlighet | <10 ⁻⁷ , <1 feil pr 10 ⁷ operasjoner | | | |
| ved 5 V DC/1 mA | | H _F | Feil-sansynlighet | <10 ⁻⁶ , <1 svikt pr 5 x 10 ⁶ operasjoner | | | |
| Frekvens | | | Hz | maks. 400 | | | |
| Kortslutningsområde ihht. IEC/EN 60947-5-1 | | | | | | | |
| maks. sikring | | | A gG/gI | 6 | | | |
| Gjentakelsesnøyaktighet | | | mm | ± 0,02 | ± 0,02 | ± 0,02 | ± 0,02 |
| Merknad | | | | | | | |
| For LSE 11 og LSE 02 gjelder: | | | | | | | |
| Sørg for riktig tilførselsspenning ved innstilling av betjeningspunkt | | | | | | | |

Tekniske data, komplette enheter

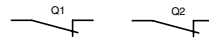
LS, LSM, LSE

| | | | | IP66,IP67 komplette enheter | | | |
|---------------------------------------------------------|-----------------------|-------------------|---------|-----------------------------------|------------------|------------------|------------------|
| | | | | LS, LSM | LSE-11 LSE-02 | LSE-AI LSE-AU | LSE-AI LSE-AU |
| Mekanisk drift | | | | | | | |
| Levetid | | | | | | | |
| Standard kontakt | Koblinger | x 10 ⁶ | 8 | | | | |
| Moment-kontakt | Koblinger | x 10 ⁶ | 8 | 3 (elektronisk) | | | |
| Berøringsstemperatur på betjeningsarm med rulle | | °C | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | |
| Støtsikkerhet, 20 ms | | | | IP66, IP67 | IP66, IP67 | IP66, IP67 | IP66, IP67 |
| Standard kontakt | | g | 25 | | | | |
| Moment-kontakt | | g | | | | | |
| Basisenhet | | g | | 30 | 30 | 30 | |
| Betjeningsfrekvens | Koblinger/t | | ≤ 6000 | ≤ 3000 | ≤ 3000 | ≤ 3000 | ≤ 3000 |
| Koblingspunkt | | | | 0,5 - 5,5 mm, fritt justerbart | | | |
| Hysteres | | mm | | 0,4 | 0,4 | 0,4 | |
| Kontaktsekvens | | mm | | 0,04 | 0,06 | 0,06 | |
| Drivkraft | | | | | | | |
| Mekanisk | | | | | | | |
| Aktiveringskraft start/slutt | | | | | | | |
| Basisenhet | | N | 1,0/8,0 | 3,5/8,0 | 3,5/8,0 | 3,5/8,0 | |
| LS(M)-XP | | N | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | |
| LS(M)-XL | | N | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | |
| LS(M)-XLA | | N | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | 1,0/8,0 | |
| Aktiveringsmoment for roterende drift | | Nm | 0,2 | 0,2 | 0,2 | 0,2 | |
| Maks. driftshastighet med DIN skive | | | | | | | |
| Basisenhet med vinklet aktivisering | 0°/30° | m/s | 1/0,5 | 1/0,5 | 1/0,5 | 1/0,5 | |
| LS(M)-XRL for vinklet aktivisering | α = 0° | m/s | 1,5 | 1,5 | 1,5 | 1,5 | |
| LS(M)-XRLA for vinklet aktivisering | α = 30° L = 125 mm | m/s | 1,5 | 1,5 | 1,5 | 1,5 | |
| LS(M)-XRR for vinklet aktivisering | L = 130 mm | m/s | 1,5 | 1,5 | 1,5 | 1,5 | |
| LS(M)-XL for vinklet aktivisering | α = 30°/ 45° | m/s | 1 | 1 | 1 | 1 | |
| LS(M)-XLA for vinklet aktivisering | α = 30°/ 45° | m/s | 1 | 1 | 1 | 1 | |
| LS(M)-XP for vinklet aktivisering | α = 0°/ 30° | m/s | 1/1 | 1/1 | 1/1 | 1/1 | |
| Elektromagnetisk kompatibilitet (EMC) | | | | | | | |
| Elektrostatisk utladning (IEC/EN 61000-4-2,nivå 3, ESD) | | | | | | | |
| Luftutladning | | kV | | 8 | 8 | 8 | |
| Kontaktutladning | | kV | | 4 | 4 | 4 | |
| Elektromagnetisk felt (IEC/EN 61000-4-3, RFI) | | V/m | | 10 | 10 | 10 | |
| Burst pulses (IEC/EN 61000-4-4,nivå 3) | | | | | | | |
| Tilførselskabler | | kV | | 2 | 2 | 2 | |
| Signalkabler | | kV | | 2 | 2 | 2 | |
| Støtpuls (IEC/EN 61000-4-5) | | kV | | 0,5 | 0,5 | 0,5 | |
| Induserende felt (IEC/EN 61000-4-6) | | V | | 10 | 10 | 10 | |
| | | | | Kontaktor M12A(B) | | M12A(B)5 | |
| Generelt | | | | | | | |
| Antall poler | | | | 4 | 5 | | |
| Kapslingsgrad | | | | IP66 | IP66 | | |
| Mekanisk levetid | | Koblinger | > 500 | > 500 | | | |
| Karakteristikk | | | | | | | |
| Merke driftsspennning | | D _e | VAC | 250 | 1255 | | |
| Merke driftsstrøm | | I _e | A | 4 | 4 | | |
| Overspenningskategori/forurensningsgrad | | | | II/3 | II/3 | | |

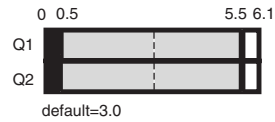
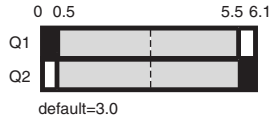
LSE-11



LSE-02



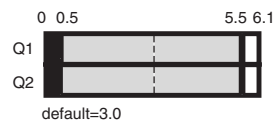
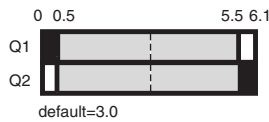
Basisenhet



Aktiviseringshode

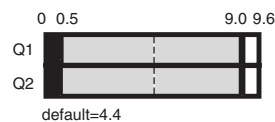
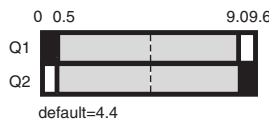
Rulletapp

- LS-XP
- LSM-XP
- PLS-XOR



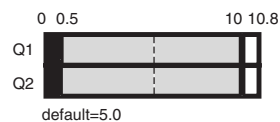
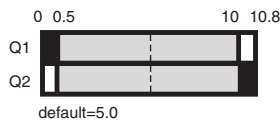
Arm med rulle

- LS-XL
- LSM-XL
- LS-XL
- LS-XLB



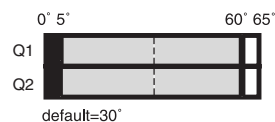
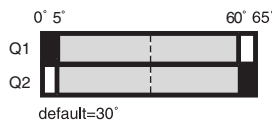
Vinkelrulle

- LS-XLA
- LSM-XLA



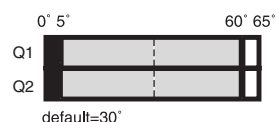
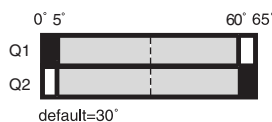
Svingarm

- LS-XRL
- LSM-XRL



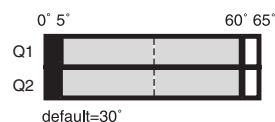
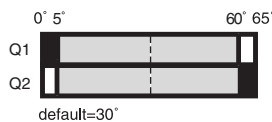
Justerbar rullearm

- LS-XRLA
- LSM-XRLA
- LS-XRLA30
- LS-XRLA40
- LS-XRLA40R



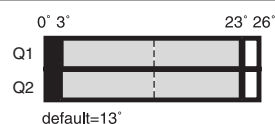
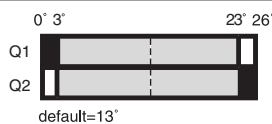
Justerbar kunststoffarm

- LS-XRR
- LSM-XRR
- LS-XRRM
- LSM-XRRM



Fjærstav

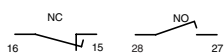
- LS-XS
- LSM-XS



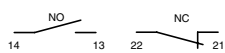
Tekniske data, funksjonsdiagram

LS, LSM

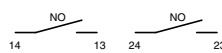
LS-11DA
LS-S11DA
LSM-11DA



LS-11S
LS-S11S
LSM-11S



LS-20
LS-S20
LSM-20



LS-20A
LS-S20A
LSM-20A

