

Audible and visual signalling device

Series YL60 - Ex d, max. 110 dB(A), XENON, ALU

STAHL



- Lamp: Flashing beacon – XENON (5 J)
- Horn: Omnidirectional/max. 110 dB(A)
- Type of protection: Ex d
- Class: IP66 (IEC 60529/NEMA 4X)
- Robust aluminium enclosure (powder-coated)
- Stainless steel protection cage and mounting bracket included
- 8 light-intensifying Fresnel lens colours available to order
- 32 standardised preconfigured signal sounds (PFEER/UKOOA compatible)
- 2 individual signal sounds can be chosen
- Telephone system connection/line monitoring optionally available to order

E5

WebCode YL60A



Product series YL60 is designed to provide both an audible and visual alarm which can be used to alert, warn or draw attention to machine malfunction/start up or any number of safety related issues in hazardous areas. The audible and visual signals can be operated independently or as a combination unit.

| | IECEx / ATEX | | | | | |
|-----------------|--------------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | | • | • | | • | • |

| | NEC 500 CEC Appendix J | | | | | |
|-----------------|---------------------------|---|----------|---|-----------|---|
| | Class I | | Class II | | Class III | |
| Division | 1 | 2 | 1 | 2 | 1 | 2 |
| Installation in | • | • | • | • | • | |

| | CEC Section 18 | | | | | |
|-----------------|----------------|---|---|----------|----|----|
| | NEC® 505 | | | NEC® 506 | | |
| | Class I | | | | | |
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Installation in | | • | • | | • | • |

| Selection Table | | | | | | |
|------------------------------|------------------------------|--|-------------|-----------------|----------|-----------|
| Certificates | | ATEX (BAS), Brazil (ULB), IECEx (BAS), India (PESO), Korea (KTL), SIL (exida), Taiwan (ITRI) | | | | |
| Rated operational voltage AC | Rated operational voltage DC | Rated operational current | Lens colour | Product Type | Art. No. | Weight kg |
| 115 V | - | 200 mA | Amber | YL60/C/L50/A/EU | 205267 | 6.000 |
| | | 200 mA | Blue | YL60/C/L50/B/EU | 205268 | 6.000 |
| | | 200 mA | Green | YL60/C/L50/G/EU | 205269 | 6.000 |
| | | 200 mA | Opal | YL60/C/L50/O/EU | 205270 | 6.000 |
| | | 200 mA | Red | YL60/C/L50/R/EU | 205271 | 6.000 |
| | | 200 mA | Yellow | YL60/C/L50/Y/EU | 205464 | 6.000 |
| 230 V | - | 100 mA | Amber | YL60/C/N50/A/EU | 205273 ▲ | 6.000 |
| | | 100 mA | Blue | YL60/C/N50/B/EU | 205277 | 6.000 |
| | | 100 mA | Clear | YL60/C/N50/C/EU | 205279 | 6.000 |
| | | 100 mA | Opal | YL60/C/N50/O/EU | 205281 | 6.000 |
| | | 100 mA | Red | YL60/C/N50/R/EU | 205282 | 6.000 |
| | | 100 mA | Yellow | YL60/C/N50/Y/EU | 205285 | 6.000 |
| - | 24 V | 570 mA | Amber | YL60/C/D50/A/EU | 205250 ▲ | 6.000 |
| | | 570 mA | Blue | YL60/C/D50/B/EU | 205252 | 6.000 |
| | | 570 mA | Clear | YL60/C/D50/C/EU | 205254 | 6.000 |
| | | 570 mA | Green | YL60/C/D50/G/EU | 205256 | 6.000 |
| | | 570 mA | Red | YL60/C/D50/R/EU | 205257 ▲ | 6.000 |
| | | 570 mA | Yellow | YL60/C/D50/Y/EU | 206950 | 6.000 |

Selection Table

| Certificates ATEX (BAS), Canada / USA (UL), IECEx (BAS) | | | | | | |
|---|------------------------------|---------------------------|-------------|-----------------|----------|-----------|
| Rated operational voltage AC | Rated operational voltage DC | Rated operational current | Lens colour | Product Type | Art. No. | Weight kg |
| 115 V | - | 200 mA | Amber | YL60/B/L50/A/UL | 205568 | 6.000 |
| | | 200 mA | Blue | YL60/B/L50/B/UL | 205298 | 6.000 |
| | | 200 mA | Clear | YL60/B/L50/C/UL | 224224 | 6.000 |
| | | 200 mA | Green | YL60/B/L50/G/UL | 239987 | 6.000 |
| | | 200 mA | Red | YL60/B/L50/R/UL | 205299 | 6.000 |
| | | 200 mA | Yellow | YL60/B/L50/Y/UL | 211815 | 6.000 |
| 230 V | - | 100 mA | Amber | YL60/B/N50/A/UL | 205301 | 6.000 |
| | | 100 mA | Clear | YL60/B/N50/C/UL | 250450 | 6.000 |
| | | 100 mA | Red | YL60/B/N50/R/UL | 212386 | 6.000 |
| | | 100 mA | Yellow | YL60/B/N50/Y/UL | 224680 | 6.000 |
| - | 24 V | 570 mA | Amber | YL60/B/D50/A/UL | 205287 | 6.000 |
| | | 570 mA | Blue | YL60/B/D50/B/UL | 205289 | 6.000 |
| | | 570 mA | Clear | YL60/B/D50/C/UL | 205291 | 6.000 |
| | | 570 mA | Red | YL60/B/D50/R/UL | 205293 | 6.000 |
| | | 570 mA | Yellow | YL60/B/D50/Y/UL | 205297 | 6.000 |
| Certificates ATEX (BAS), EAC (TehnoP), India (PESO), Russian Federation (TPB SER) | | | | | | |
| Rated operational voltage AC | Rated operational voltage DC | Rated operational current | Lens colour | Product Type | Art. No. | Weight kg |
| 115 V | - | 200 mA | Amber | YL60/C/L50/A/RU | 212390 | 6.000 |
| | | 200 mA | Red | YL60/C/L50/R/RU | 205272 | 6.000 |
| 230 V | - | 100 mA | Amber | YL60/C/N50/A/RU | 212391 | 6.000 |
| | | 100 mA | Red | YL60/C/N50/R/RU | 212392 | 6.000 |
| - | 24 V | 570 mA | Amber | YL60/C/D50/A/RU | 212389 | 6.000 |
| | | 570 mA | Blue | YL60/C/D50/B/RU | 262033 | 6.000 |
| | | 570 mA | Red | YL60/C/D50/R/RU | 205265 | 6.000 |
| | | 570 mA | Yellow | YL60/C/D50/Y/RU | 264943 | 6.000 |


Technical Data

| Variant | YL60/./..././EU | YL60/./..././RU | YL60/./..././UL |
|---------------------------------|---|--|---|
| Explosion Protection | | | |
| IECEX gas explosion protection | Ex d IIB+H2 T6/T4 Gb | | Ex d IIB+H2 T4 Gb |
| IECEX dust explosion protection | Ex tb IIIC T85 °C ... T135 °C Db | | Ex tb IIIC T135 °C Db |
| ATEX gas explosion protection | Ⓔ II 2 G Ex d IIB+H2 T6/T4 Gb | | Ⓔ II 2 G Ex d IIB+H2 T4 Gb |
| ATEX dust explosion protection | Ⓔ II 2 D Ex tb IIIC T85 °C ... T135 °C Db | | Ⓔ II 2 D Ex tb IIIC T135 °C Db |
| EAC gas explosion protection | | Ex 1 Ex d IIB+H2 T4 Gb X Ex 1 Ex d IIB+H2 T6 Gb X | |
| EAC dust explosion protection | | Ex tb IIIC T135 °C Db X Ex tb IIIC T85 °C Db X | |
| Marking cULus | | | Class I, Div. 1,2, Groups B,C,D Class II, Groups E,F,G Class III Class I, Zone 1 AEx/Ex d IIB + H ₂ |
| Acoustic Data | | | |
| Sound pressure level | max. 110 dB(A) @ 1 m | max. 110 dB(A) @ 1 m | max. 110 dB(A) @ 1 m |
| Tone selection | Via DIL switch | Via DIL switch | Via DIL switch |
| Number of stages | 2 | 2 | 2 |

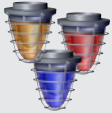

| Technical Data | | | |
|---|--|--|--|
| Variant | YL60/J.../J/EU | YL60/J.../J/RU | YL60/J.../J/UL |
| Ambient Conditions | | | |
| Ambient temperature | -20 °C ... +40 °C (T6) -20 °C ... +60 °C (T4) | -20 °C ... +40 °C -20 °C ... +60 °C | -20 °C ... +60 °C (T4) |
| Lighting Data | | | |
| Lamp | Xenon flash tubes | Xenon flash tubes | Xenon flash tubes |
| Flash energy | 5 J | 5 J | 5 J |
| Flash rate | 1 Hz | 1 Hz | 1 Hz |
| Mechanical Data | | | |
| Degree of protection IP (IEC 60529) | IP66 | IP66 | IP66 |
| Enclosure material | Aluminium, powder-coated, Seawater-resistant | Aluminium, powder-coated, Seawater-resistant | Aluminium, powder-coated, Seawater-resistant |
| Enclosure colour | red normal | red normal | Red (RAL 3001) |
| Trumpet material | ABS, flame retardant | ABS, flame retardant | ABS, flame retardant |
| Material glas dome | Polycarbonate | Polycarbonate | Polycarbonate |
| Material wire guard | Stainless steel | Stainless steel | Stainless steel |
| Connection terminals solid max. | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Connection terminals finely-stranded max. | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Mounting / Installation | | | |
| Material mounting parts | Sheet steel, powder-coated | Sheet steel, powder-coated | Sheet steel, powder-coated |
| Connection type | Screw terminal | Screw terminal | Screw terminal |
| Components | | | |
| Drilled holes | 2 x M20 | 2 x M20 | 2 x M20 |
| Cable entries | Can be ordered as accessories | Can be ordered as accessories | Can be ordered as accessories |
| Stopping plug | 1 x dust cap 1 x M20 x 1.5 | 1 x M20 x 1.5 1 x dust cap | 1 x 1/2" NPT 2 x adapters M20x1/2"NPT 1 x dust cap |
| Stopping plug material | Brass | Brass | Brass |
| You can find more technical data online at r-stahl.com . WebCode YL60A | | | |

| Accessories | | | |
|----------------------------|---|----------|-----------|
| Figure | Description | Art. No. | Weight kg |
| Cable glands | | | |
| | Ex e adapter for ATEX - 20 °C to +50/60 °C | 264252 | 0.270 |
| Cable glands made of metal | | | |
| | Ex d & Ex e cable gland for all types of unarmoured and braid armour cables (nickel plated brass) | 243464 ▲ | 0.070 |
| | Ex d & Ex e Compound barrier cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) | 109428 ▲ | 0.240 |
| | RapidEx liquid pour sealing system Cable entry with compound CMP-20PX2K-REX KLE MsNi M20 for reinforced conductors | 246649 | 0.240 |
| | Ex d & Ex e Compound barrier cable gland for all types of unarmoured and braid armour cables (nickel plated brass) | 109441 ▲ | 0.200 |
| | RapidEx liquid pour sealing system Cable entry with compound CMP-20PXSS2K-REX KLE MsNi M20 | 246605 | 0.200 |
| | Ex d & Ex e cable gland for all types of armoured cables (SWA, braided, tape) (nickel plated brass) with unique compensating displacement seal system (CDS) | 246561 ▲ | 0.280 |

Accessories

| Figure | Description | Art. No. | Weight kg |
|---|--|----------|-----------|
| Mounting bracket | | | |
|  | Stainless steel bracket fixing kit accessories | 210794 | 0.400 |

Spare Parts

| Figure | Description | Art. No. | Weight kg |
|---|-------------------|----------|-----------|
| Emergency light flange | | | |
|  | amber ATEX spare | 209407 | 1.080 |
| | amber UL spare | 209421 | 1.080 |
| | blue ATEX spare | 209408 | 1.080 |
| | blue UL spare | 209422 | 1.080 |
| | clear UL spare | 209423 | 1.080 |
| | green UL spare | 209424 | 1.080 |
| | red ATEX spare | 209412 | 1.080 |
| | red UL spare | 209426 | 1.080 |
| | yellow ATEX spare | 209413 | 1.080 |
| Moulding-lens | | | |
|  | clear | 209402 | 0.070 |
| | red | 209405 | 0.070 |
| | yellow | 209406 | 0.070 |

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

