

DSP56U2Ex

VATRA Corporation

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catalogue 2019



source of light and power, W..... LEDs • 40; 60; 75; 80; 2x80; 3x80; 4x80; 100; 120
 rated voltage, V..... 230 AC, 230 DC
 protection level..... IP65
 hazardous areas..... 2; 21; 22
 marking..... II 3G Ex nA nC IIC T5 Gc
 II 3D Ex tc IIIC T100°C Dc
 II 3G Ex ec IIC T6 Gc for emergency mode
 II 3D Ex tc IIIC T80°C Dc
 electrical protection class..... I
 mechanical durability..... M1
 correlated colour temperature..... 4000K (3800...4200K)
 power factor compensation (PFC).... 0,95
 ambient temperature..... -40°C...+50°C (N2)
 0°C...+40°C (NF3.1) for emergency mode



Explosion-proof LED lighting fixture is used for lighting highly explosive areas 1, 2 and fire risk classes; and also for lighting hazardous areas of zones 21, 22 e.g industrial areas as oil-refining, gas chemical and other industries.

Housing: extruded aluminum profile.

Side covers: non-flammable plastic.

Inner reflector (modifications -0XX, -2XX): polished aluminum sheet of high quality.

Light-transparent protective element: plane tempered glass or, on request, transparent fireproof light-stabilized polycarbonate.

Control gear:

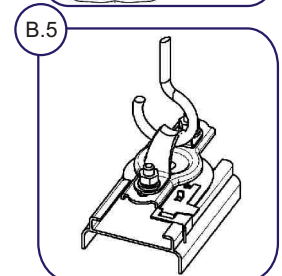
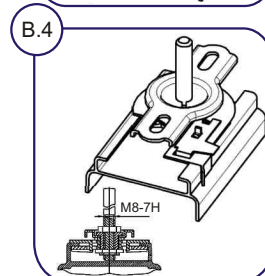
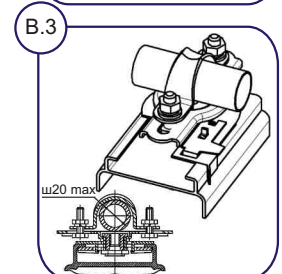
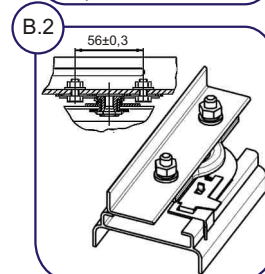
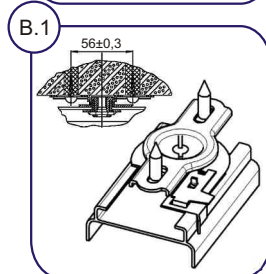
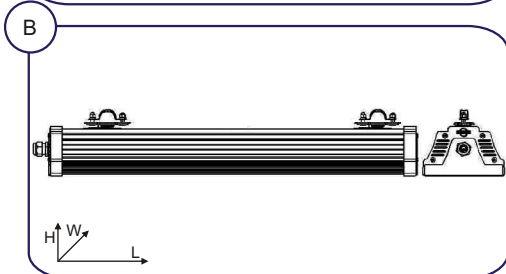
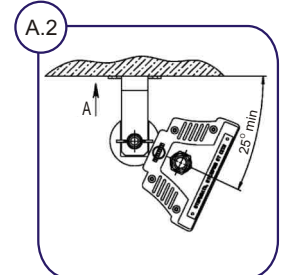
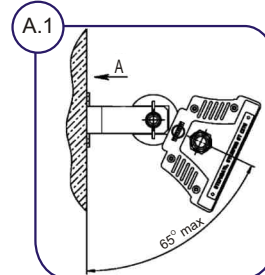
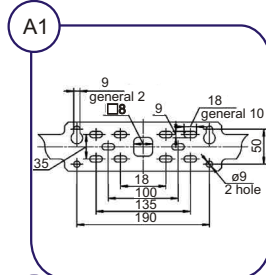
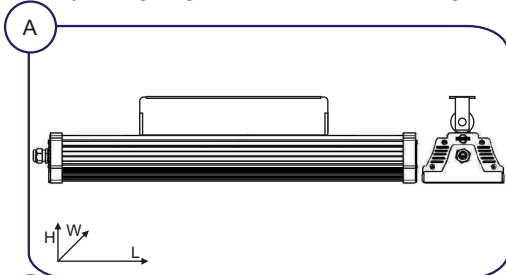
- driver;

- driver with emergency unit.

Cable gland: 1 or 2pcs.

Source of light: LEDs.

Delivery set: lighting fixture with LEDs, mounting knot.



Mounting:

- (A) on supporting surface with the help of rotary lyre
- (B) with the help of universal mounting knot
 - (B.1) on horizontal supporting surface - screws, threaded pins or bolts
 - (B.2) on horizontal mounting profile
 - (B.3) on horizontal pipe max $\varnothing 20\text{mm}$
 - (B.4) on vertical stands
 - (B.5) on hooks

Recommended installation high: up to 18...20m.

Network connection: individual or transit:

- non-armored cable $\varnothing 7...13\text{mm}$ (core section up to 4mm^2 , for emergency mode up to $2,5\text{mm}^2$).
- armored cable $\varnothing 9,5...15,9\text{mm}$ (core section up to 4mm^2 , for emergency mode up to $2,5\text{mm}^2$).

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Order example: VATRA DSP56U2Ex-100-241 N2

decoding of modification:

- 1 figure • scattering angle:
 - 0- 80° general and emergency mode
 - 1- 110° general and emergency mode
 - 2- 80° general mode
 - 3- 110° general mode
- 2 figure • network connection:
 - 1- individual, armored cable
 - 2- individual, non-armored cable
 - 3- transit, armored cable
 - 4- transit, non-armored cable
- 3 figure • mounting:
 - 1- on supporting surface with the help of rotary lyre
 - 2- with the help of universal mounting knot:
 - on horizontal supporting surface - screws, threaded pins, bolts
 - on horizontal mounting profile
 - on horizontal pipe max ø20mm
 - on vertical stands, on hooks

Type of lighting fixture	Voltage, V	Protection level	SL	Power consumption, W (general / emergency mode)	Luminous flux, lm (general / emergency mode)	Light distribution	Dimensions, LxWxH, mm	Weight, kg±10%
DSP56U2Ex-40-211 NF2	220 AC/DC	IP65	LED	40	5450	80°	615x155x205	4,7
DSP56U2Ex-40-221 NF2	220 AC/DC	IP65	LED	40	5450	80°	585x155x205	4,5
DSP56U2Ex-40-231 NF2	220 AC/DC	IP65	LED	40	5450	80°	670x155x205	4,9
DSP56U2Ex-40-241 NF2	220 AC/DC	IP65	LED	40	5450	80°	605x155x205	4,5
DSP56U2Ex-40-212 NF2	220 AC/DC	IP65	LED	40	5450	80°	615x155x120	3,5
DSP56U2Ex-40-222 NF2	220 AC/DC	IP65	LED	40	5450	80°	585x155x120	3,3
DSP56U2Ex-40-232 NF2	220 AC/DC	IP65	LED	40	5450	80°	670x155x120	3,7
DSP56U2Ex-40-242 NF2	220 AC/DC	IP65	LED	40	5450	80°	605x155x120	3,3
DSP56U2Ex-40-311 NF2	220 AC/DC	IP65	LED	40	5800	110°	615x155x205	4,6
DSP56U2Ex-40-321 NF2	220 AC/DC	IP65	LED	40	5800	110°	585x155x205	4,4
DSP56U2Ex-40-331 NF2	220 AC/DC	IP65	LED	40	5800	110°	670x155x205	4,8
DSP56U2Ex-40-341 NF2	220 AC/DC	IP65	LED	40	5800	110°	605x155x205	4,4
DSP56U2Ex-40-312 NF2	220 AC/DC	IP65	LED	40	5800	110°	615x155x120	3,4
DSP56U2Ex-40-322 NF2	220 AC/DC	IP65	LED	40	5800	110°	585x155x120	3,2
DSP56U2Ex-40-332 NF2	220 AC/DC	IP65	LED	40	5800	110°	670x155x120	3,6
DSP56U2Ex-40-342 NF2	220 AC/DC	IP65	LED	40	5800	110°	605x155x120	3,2
DSP56U2Ex-50-111 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	745x155x205	6,6
DSP56U2Ex-50-121 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	731x155x205	6,5
DSP56U2Ex-50-131 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	795x155x205	6,8
DSP56U2Ex-50-141 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	762x155x205	6,5
DSP56U2Ex-50-112 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	745x155x120	6,1
DSP56U2Ex-50-122 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	731x155x120	6
DSP56U2Ex-50-132 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	795x155x120	6,2
DSP56U2Ex-50-142 NF3.1	220 AC	IP65	LED	50 / 8	5936 / 1181	110°	762x155x120	6
DSP56U2Ex-60-111 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	745x155x205	6,6
DSP56U2Ex-60-121 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	731x155x205	6,5
DSP56U2Ex-60-131 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	795x155x205	6,8
DSP56U2Ex-60-141 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	762x155x205	6,5
DSP56U2Ex-60-112 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	745x155x120	6,1
DSP56U2Ex-60-122 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	731x155x120	6
DSP56U2Ex-60-132 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	795x155x120	6,2
DSP56U2Ex-60-142 NF3.1	220 AC	IP65	LED	60 / 8	7677 / 1148	110°	762x155x120	6
DSP56U2Ex-60-211 NF2	220 AC/DC	IP65	LED	60	8220	80°	935x155x205	7,8
DSP56U2Ex-60-221 NF2	220 AC/DC	IP65	LED	60	8220	80°	905x155x205	7,6
DSP56U2Ex-60-231 NF2	220 AC/DC	IP65	LED	60	8220	80°	985x155x205	8,0
DSP56U2Ex-60-241 NF2	220 AC/DC	IP65	LED	60	8220	80°	925x155x205	7,6
DSP56U2Ex-60-212 NF2	220 AC/DC	IP65	LED	60	8220	80°	935x155x120	6,6
DSP56U2Ex-60-222 NF2	220 AC/DC	IP65	LED	60	8220	80°	905x155x120	6,4
DSP56U2Ex-60-232 NF2	220 AC/DC	IP65	LED	60	8220	80°	985x155x120	6,8
DSP56U2Ex-60-242 NF2	220 AC/DC	IP65	LED	60	8220	80°	925x155x120	6,4
DSP56U2Ex-60-311 NF2	220 AC/DC	IP65	LED	60	8550	110°	935x155x205	7,6
DSP56U2Ex-60-321 NF2	220 AC/DC	IP65	LED	60	8550	110°	905x155x205	7,4
DSP56U2Ex-60-331 NF2	220 AC/DC	IP65	LED	60	8550	110°	985x155x205	7,8
DSP56U2Ex-60-341 NF2	220 AC/DC	IP65	LED	60	8550	110°	925x155x205	7,4
DSP56U2Ex-60-312 NF2	220 AC/DC	IP65	LED	60	8550	110°	935x155x120	6,4
DSP56U2Ex-60-322 NF2	220 AC/DC	IP65	LED	60	8550	110°	905x155x120	6,2
DSP56U2Ex-60-332 NF2	220 AC/DC	IP65	LED	60	8550	110°	985x155x120	6,6
DSP56U2Ex-60-342 NF2	220 AC/DC	IP65	LED	60	8550	110°	925x155x120	6,2
DSP56U2Ex-75-111 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	745x155x205	6,6
DSP56U2Ex-75-121 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	731x155x205	6,5
DSP56U2Ex-75-131 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	795x155x205	6,8
DSP56U2Ex-75-141 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	762x155x205	6,5
DSP56U2Ex-75-112 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	745x155x120	6,1
DSP56U2Ex-75-122 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	731x155x120	6
DSP56U2Ex-75-132 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	795x155x120	6,2
DSP56U2Ex-75-142 NF3.1	220 AC	IP65	LED	75 / 8	9488 / 1148	110°	762x155x120	6
DSP56U2Ex-80-211 NF2	220 AC/DC	IP65	LED	80	10900	80°	935x155x205	7,8
DSP56U2Ex-80-221 NF2	220 AC/DC	IP65	LED	80	10900	80°	905x155x205	7,6
DSP56U2Ex-80-231 NF2	220 AC/DC	IP65	LED	80	10900	80°	985x155x205	8,0
DSP56U2Ex-80-241 NF2	220 AC/DC	IP65	LED	80	10900	80°	925x155x205	7,6
DSP56U2Ex-80-212 NF2	220 AC/DC	IP65	LED	80	10900	80°	935x155x120	6,6
DSP56U2Ex-80-222 NF2	220 AC/DC	IP65	LED	80	10900	80°	905x155x120	6,4
DSP56U2Ex-80-232 NF2	220 AC/DC	IP65	LED	80	10900	80°	985x155x120	6,8

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ADVANTAGES:

- operating range of AC voltage 100...305V (for emergency mode 198...264V), operating range of DC voltage 142...431V;
- there are modifications with emergency units that provide work of luminary in emergency mode not less than 3 hours;
- high IP-requirements, shockproof;
- weatherproof - long life cycle;
- source of light - energy efficient LEDs (more than 50 000 hours of continuous work), ecological harmless, don't need special recycling (without mercury), instant light on/light off, stable to change of voltage, multiple on/off, high colour rendering; no harmful effect of low-frequency pulses, no UV radiation;
- electric components and LEDs are from leading world manufacturers;
- two cable glands make possible quick transit connection to power supply line.

Type of lighting fixture	Voltage, V	Protection level	SL	Power consumption, W (general / emergency mode)	Luminous flux, lm (general / emergency mode)	Light distribution	Dimensions, LxWxH, mm	Weight, kg±10%
DSP56U2Ex-80-242 NF2	220 AC/DC	IP65	LED	80	10900	80°	925x155x120	6,4
DSP56U2Ex-80-311 NF2	220 AC/DC	IP65	LED	80	11700	110°	935x155x205	7,6
DSP56U2Ex-80-321 NF2	220 AC/DC	IP65	LED	80	11700	110°	905x155x205	7,4
DSP56U2Ex-80-331 NF2	220 AC/DC	IP65	LED	80	11700	110°	985x155x205	7,8
DSP56U2Ex-80-341 NF2	220 AC/DC	IP65	LED	80	11700	110°	925x155x205	7,4
DSP56U2Ex-80-312 NF2	220 AC/DC	IP65	LED	80	11700	110°	935x155x120	6,4
DSP56U2Ex-80-322 NF2	220 AC/DC	IP65	LED	80	11700	110°	905x155x120	6,2
DSP56U2Ex-80-332 NF2	220 AC/DC	IP65	LED	80	11700	110°	985x155x120	6,6
DSP56U2Ex-80-342 NF2	220 AC/DC	IP65	LED	80	11700	110°	925x155x120	6,2
DSP56U2Ex-100-211 NF2	220 AC/DC	IP65	LED	100	12700	80°	1320x155x205	10,9
DSP56U2Ex-100-221 NF2	220 AC/DC	IP65	LED	100	12700	80°	1290x155x205	10,7
DSP56U2Ex-100-231 NF2	220 AC/DC	IP65	LED	100	12700	80°	1370x155x205	11,1
DSP56U2Ex-100-241 NF2	220 AC/DC	IP65	LED	100	12700	80°	1310x155x205	10,7
DSP56U2Ex-100-212 NF2	220 AC/DC	IP65	LED	100	12700	80°	1320x155x120	9,7
DSP56U2Ex-100-222 NF2	220 AC/DC	IP65	LED	100	12700	80°	1290x155x120	9,5
DSP56U2Ex-100-232 NF2	220 AC/DC	IP65	LED	100	12700	80°	1370x155x120	9,9
DSP56U2Ex-100-242 NF2	220 AC/DC	IP65	LED	100	12700	80°	1310x155x120	9,5
DSP56U2Ex-100-311 NF2	220 AC/DC	IP65	LED	100	13200	110°	1320x155x205	10,6
DSP56U2Ex-100-321 NF2	220 AC/DC	IP65	LED	100	13200	110°	1290x155x205	10,4
DSP56U2Ex-100-331 NF2	220 AC/DC	IP65	LED	100	13200	110°	1370x155x205	10,8
DSP56U2Ex-100-341 NF2	220 AC/DC	IP65	LED	100	13200	110°	1310x155x205	10,4
DSP56U2Ex-100-312 NF2	220 AC/DC	IP65	LED	100	13200	110°	1320x155x120	9,5
DSP56U2Ex-100-322 NF2	220 AC/DC	IP65	LED	100	13200	110°	1290x155x120	9,3
DSP56U2Ex-100-332 NF2	220 AC/DC	IP65	LED	100	13200	110°	1370x155x120	9,7
DSP56U2Ex-100-342 NF2	220 AC/DC	IP65	LED	100	13200	110°	1310x155x120	9,3
DSP56U2Ex-120-211 NF2	220 AC/DC	IP65	LED	120	15700	80°	1320x155x205	10,9
DSP56U2Ex-120-221 NF2	220 AC/DC	IP65	LED	120	15700	80°	1290x155x205	10,7
DSP56U2Ex-120-231 NF2	220 AC/DC	IP65	LED	120	15700	80°	1370x155x205	11,1
DSP56U2Ex-120-241 NF2	220 AC/DC	IP65	LED	120	15700	80°	1310x155x205	10,7
DSP56U2Ex-120-212 NF2	220 AC/DC	IP65	LED	120	15700	80°	1320x155x120	9,7
DSP56U2Ex-120-222 NF2	220 AC/DC	IP65	LED	120	15700	80°	1290x155x120	9,5
DSP56U2Ex-120-232 NF2	220 AC/DC	IP65	LED	120	15700	80°	1370x155x120	9,9
DSP56U2Ex-120-242 NF2	220 AC/DC	IP65	LED	120	15700	80°	1310x155x120	9,5
DSP56U2Ex-120-311 NF2	220 AC/DC	IP65	LED	120	16010	110°	1320x155x205	10,6
DSP56U2Ex-120-321 NF2	220 AC/DC	IP65	LED	120	16010	110°	1290x155x205	10,4
DSP56U2Ex-120-331 NF2	220 AC/DC	IP65	LED	120	16010	110°	1370x155x205	10,8
DSP56U2Ex-120-341 NF2	220 AC/DC	IP65	LED	120	16010	110°	1310x155x205	10,4
DSP56U2Ex-120-312 NF2	220 AC/DC	IP65	LED	120	16010	110°	1320x155x120	9,5
DSP56U2Ex-120-322 NF2	220 AC/DC	IP65	LED	120	16010	110°	1290x155x120	9,3
DSP56U2Ex-120-332 NF2	220 AC/DC	IP65	LED	120	16010	110°	1370x155x120	9,7
DSP56U2Ex-120-342 NF2	220 AC/DC	IP65	LED	120	16010	110°	1310x155x120	9,3
DSP56U2Ex-2x80-211 NF2	220 AC/DC	IP65	LED	160	21800	80°	935x315x285	15,6
DSP56U2Ex-2x80-221 NF2	220 AC/DC	IP65	LED	160	21800	80°	905x315x285	15,2
DSP56U2Ex-2x80-231 NF2	220 AC/DC	IP65	LED	160	21800	80°	985x315x285	16
DSP56U2Ex-2x80-241 NF2	220 AC/DC	IP65	LED	160	21800	80°	925x315x285	15,2
DSP56U2Ex-2x80-311 NF2	220 AC/DC	IP65	LED	160	22500	110°	935x315x285	13,2
DSP56U2Ex-2x80-321 NF2	220 AC/DC	IP65	LED	160	22500	110°	905x315x285	12,8
DSP56U2Ex-2x80-331 NF2	220 AC/DC	IP65	LED	160	22500	110°	985x315x285	13,6
DSP56U2Ex-2x80-341 NF2	220 AC/DC	IP65	LED	160	22500	110°	925x315x285	12,8
DSP56U2Ex-3x80-211 NF2	220 AC/DC	IP65	LED	240	32700	80°	935x475x370	23,4
DSP56U2Ex-3x80-221 NF2	220 AC/DC	IP65	LED	240	32700	80°	905x475x370	22,8
DSP56U2Ex-3x80-231 NF2	220 AC/DC	IP65	LED	240	32700	80°	985x475x370	24
DSP56U2Ex-3x80-241 NF2	220 AC/DC	IP65	LED	240	32700	80°	925x475x370	22,8
DSP56U2Ex-3x80-311 NF2	220 AC/DC	IP65	LED	240	32900	110°	935x475x370	19,8
DSP56U2Ex-3x80-321 NF2	220 AC/DC	IP65	LED	240	32900	110°	905x475x370	19,2
DSP56U2Ex-3x80-331 NF2	220 AC/DC	IP65	LED	240	32900	110°	985x475x370	20,4
DSP56U2Ex-3x80-341 NF2	220 AC/DC	IP65	LED	240	32900	110°	925x475x370	19,2
DSP56U2Ex-4x80-211 NF2	220 AC/DC	IP65	LED	320	43600	80°	935x634x447	31,2
DSP56U2Ex-4x80-221 NF2	220 AC/DC	IP65	LED	320	43600	80°	905x634x447	30,4
DSP56U2Ex-4x80-231 NF2	220 AC/DC	IP65	LED	320	43600	80°	985x634x447	32
DSP56U2Ex-4x80-241 NF2	220 AC/DC	IP65	LED	320	43600	80°	925x634x447	30,4
DSP56U2Ex-4x80-311 NF2	220 AC/DC	IP65	LED	320	43900	110°	935x634x447	26,4
DSP56U2Ex-4x80-321 NF2	220 AC/DC	IP65	LED	320	43900	110°	905x634x447	25,6
DSP56U2Ex-4x80-331 NF2	220 AC/DC	IP65	LED	320	43900	110°	985x634x447	27,2
DSP56U2Ex-4x80-341 NF2	220 AC/DC	IP65	LED	320	43900	110°	925x634x447	25,6