



Dok-Tek Systems Ltd.

Tel: [+44] 01 179 145 510

D7D Avondale Works, Woodland Way, Bristol. England. UK (GB). BS15 1PA

Fax: [+44] 01 179 145 103

Web: www.dok-tek.co.uk / e-mail: main.doktek@gmail.com

400 SERIES LED SIGNS & SIGNALS

400 SERIE LED BORDEN & SIGNALEN

400 SÉRIE LED SIGNES & SIGNAUX

400 SERIE LED SIGNOS Y SEÑALES

400 SERIE INSEGNE & SEGNALI A LED

SERIE 400 LED SCHILDER & SIGNALE

SINAIS DE LED 400 SÉRIE & SINAIS

ΕΝΔΕΙΞΕΙΣ LED ΣΕΙΡΑ 400 & Σ'ΗΜΑΤΑ

400 SERIE LED-SKILTE & SIGNALER

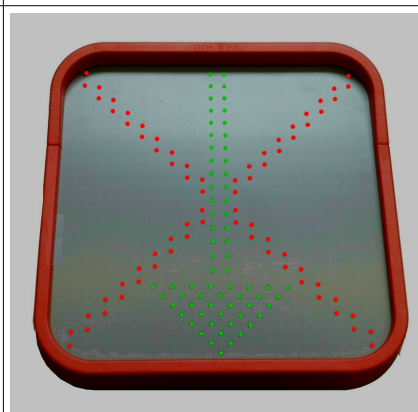
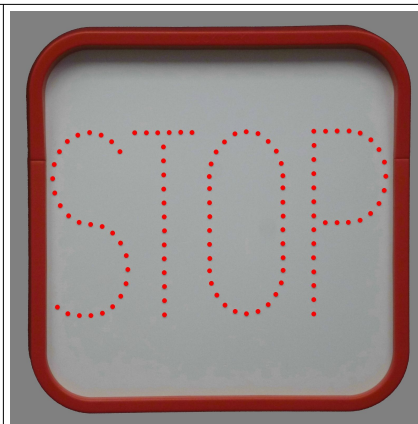
400 SERIES LED ZNAČKY SIGNÁLY

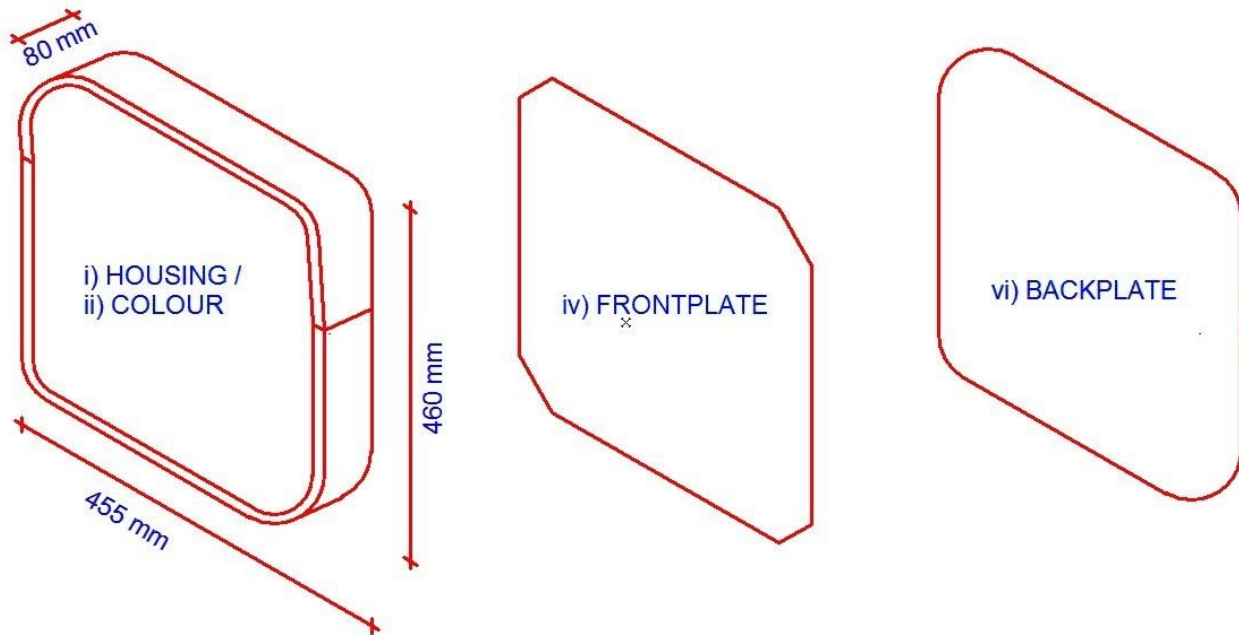
SYGNAŁY ZNAKI LED SERII 400



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Typical Part # & Description

i)	ii)	iii)	iv)	v)	vi)
400	R	CR12vDC or CR24v DC	PVCWH	001	PMRW
Frame Size	Frame Colour	Voltage	Front Plate Material & Colour	LED Colour / Layout	Backplate and Mounting

i) Frame:

	Injection moulded HI Impact ABS (HI121) frame with a face size of 400mm x 400mm with rounded corners.
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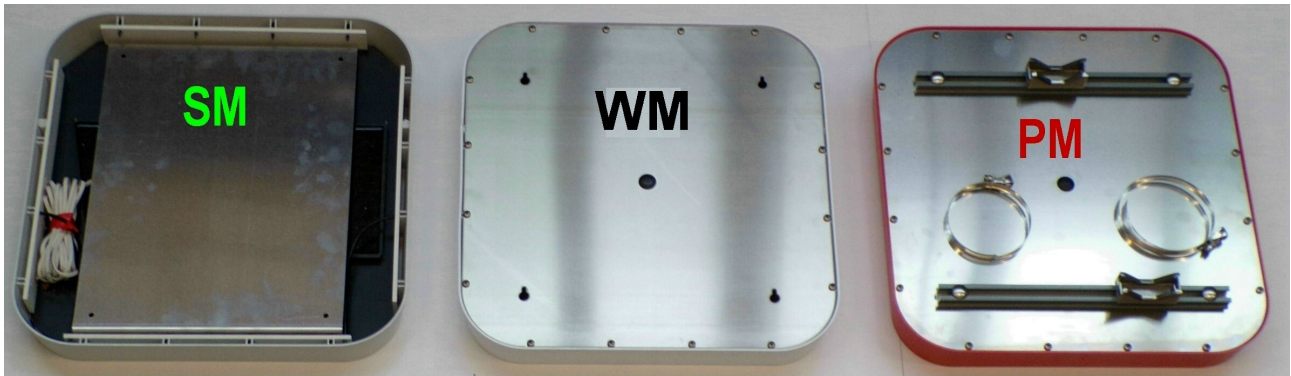
ii) Options for Frame Colour:

B		Black RAL 9011		R	Red RAL 3020
W		White RAL 9010		G	Grey RAL 7035

iv) Options for Front Plate:

	PVCWH		White 5mm Foam PVC Sheet RAL9003
	PVCBK		Black 5mm Foam PVC Sheet RAL7021
	PVCBL		Darker Blue 5mm Foam PVC Sheet RAL 5010
	PVCGY		Light Grey 5mm Foam PVC Sheet RAL 7001
	PVCYL		Light Yellow 5mm Foam PVC Shee RAL 1018
	ABSBK		Black Pinseal 5mm ABS Sheet.
	PETGF		Frosted 5mm PETG Sheet

v) Options for Mounting & Back Plates:



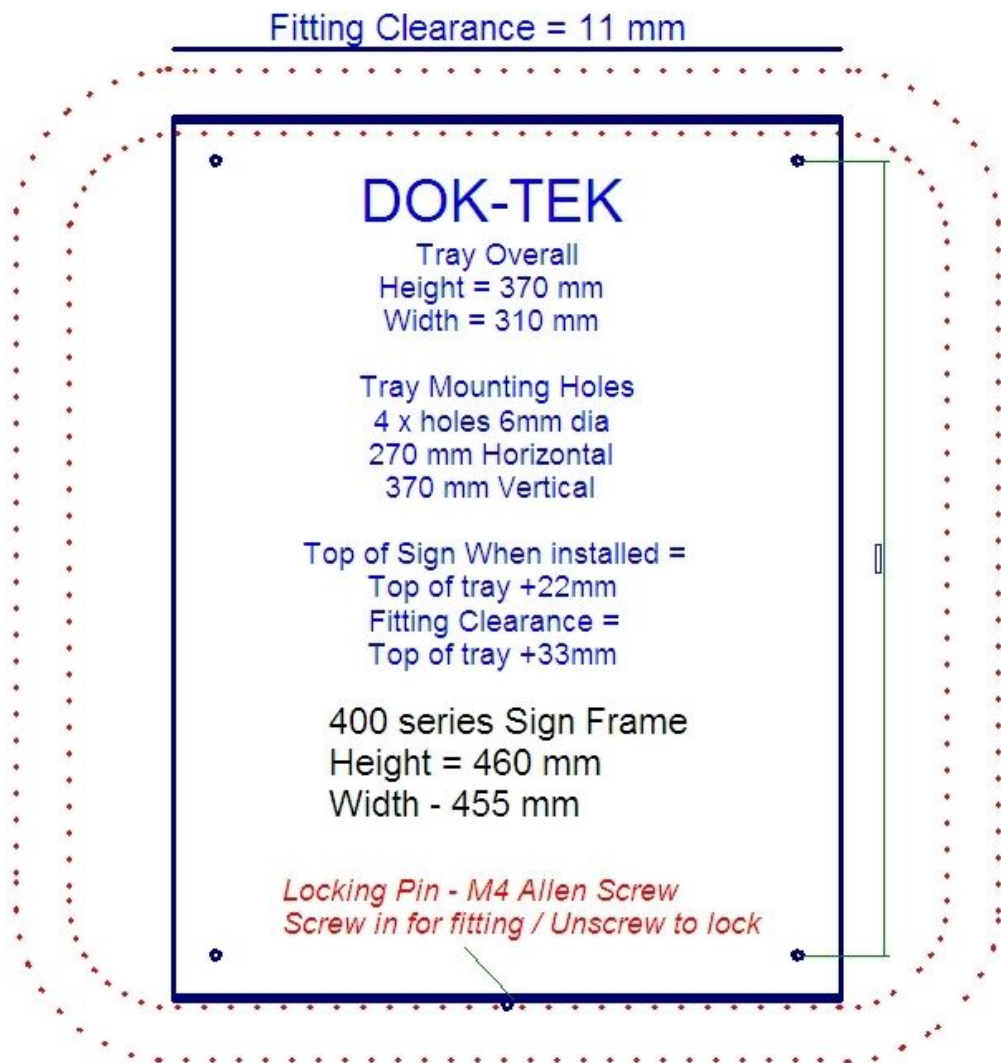
Skeleton Al Wall Mount

Wall Mounting - Al back

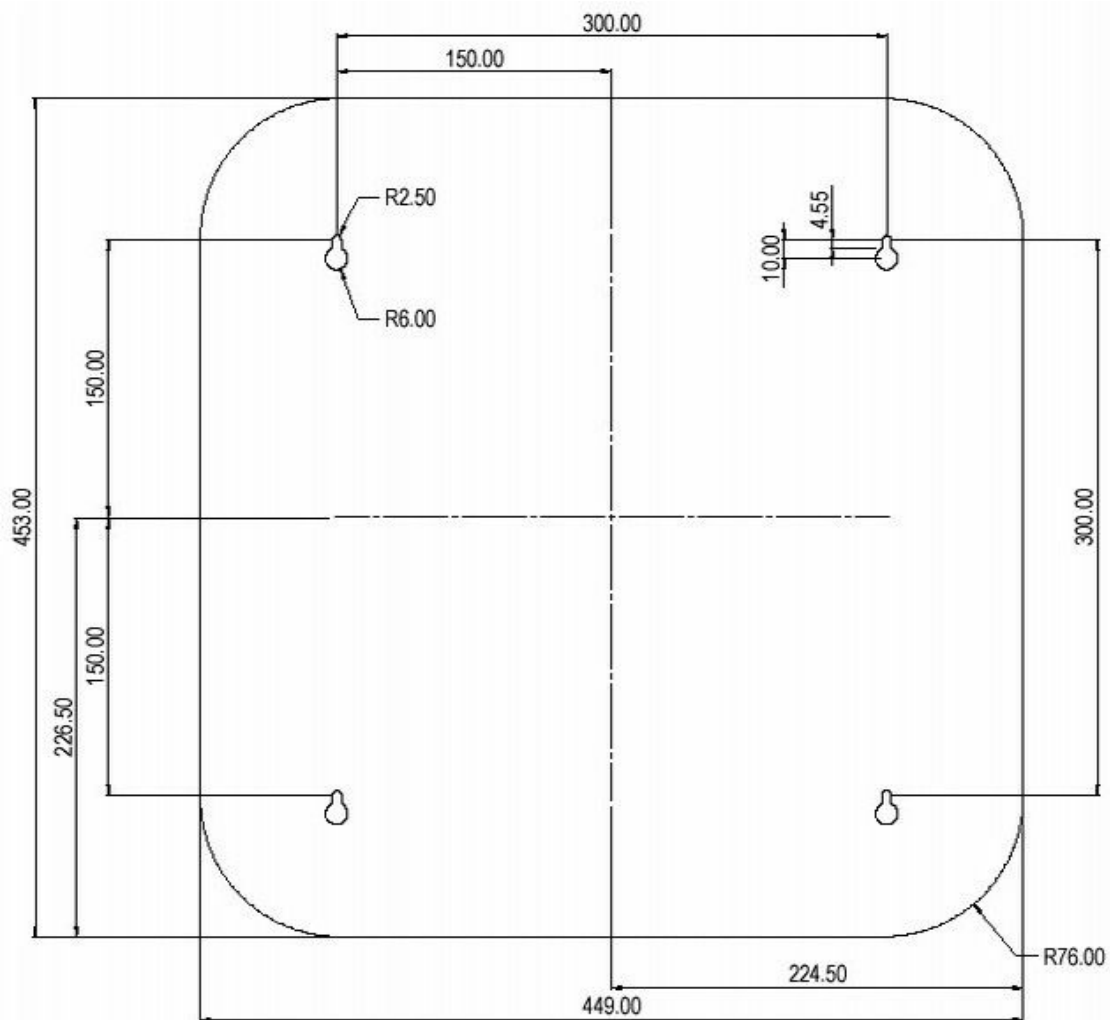
Post Mount Kit - Al back - (4M flex)

<p>Skeleton Al wall plate mounting with: 4M 2182X cable tails Mill Finish Only</p>	<p>Wall Mount 3mm Al sheet backing with: 4M 2182X cable tails. Mill finish as standard. RAL colours options.</p>	<p>Post Mount with: 4M Def-Stan Flex 16-2-?A Fully assembled. Mill finish as standard. RAL colours options.</p>
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v-a) Skeleton Back Plate



v-b) Al Back Plate Dimensions:



Backplate fixed with: 18 x No.10 x 1" Pozi Pan Tapping Screw DIN 7981C Z A2 ST,ST

vi) Voltage / Loading:

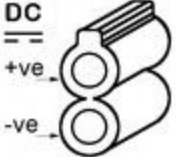











The light emitted by an LED, and its power efficiency, is dependant on the individual crystal in the LED chip, its chemical constituents (colour), connections & the efficiency and placement of the internal reflector.

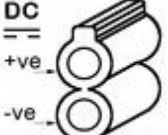












Because these signs are generally made to order, the loadings are only determined after manufacture. The table below is an approximate guidance of for the loadings only.

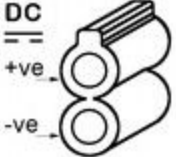








P** = LED Colour / Couleur / Farbe. Colore. Color.		R	A	G	B	W
V / W / mA		Red / Rouge / Rot / Rosso / Rojo / Vermelho	Amber / Jaune / Gelb / Colore Giallo / Amarillo	Green / Vert / Grün / Verde	Blue	White
≤ 75 LED	24vDC (± 3v)	7.3W (0.30A)	9.4W (0.40A)	6.3W (0.27A)	10.6W (0.45A)	8.6W (0.36A)
	12vDC (± 1.5v)	7.3W (0.60A)	9.4W (0.80A)	6.3W (0.54A)	10.6W (0.90A)	10.6W (0.90A)
≤ 100 LED	U24vDC (± 3v)	10.8W (0.45A)	13W (0.55A)	9.2W (0.39A)	16.W (0.7A)	12.5W (0.25A)
	U12vDC (± 1.5v)	10.8W (0.90A)	13W (1.10A)	9.2W (0.78A)	16.0W (1.4A)	16W (1.4A)

vi) Flexible cable connections:

Because of design variations the connections are individually marked on the product.

	CR24vDC = 24v DC (± 3v) - CR12VDC = 12v DC (± 1.5v)		
	EN	NL 	FR 
 IEC 60335 IEC 61140	Important. Supply Voltage: PELV / SELV extra low voltage only. Over Voltage = LED failure	Belangrijk. Voedingsspanning: Gebruik alleen extra lage spanning: PELV / SELV Overspanning = LED mislukking	Important. Tension d'alimentation: Utiliser seulement: TBTP / TBTS Au-dessus de la tension = De la panne de DEL.
	Intense LED Light For a direct view - Recommended minimum viewing distance: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Intens LED licht. Voor een directe weergave - Aanbevolen minimale kijkafstan: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Lumière LED intense. Pour une vue directe - Distance d'observation de minimale recommandée: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M
	EMC Compatability Radio Frequency Interference a) Emmissions = Benign. b) Conducted Transmissions: U**vDC = Vulnerable CR**vDC = Protected (≥ 5KHz). c) Radiated Transmissions = Vulnerable.	EMC- Compatibiliteit Radio frequentie interferentie. a) Emmissions = Goedaardige. b) Transmissies uitgevoerd: U**vDC = Kwetsbaar. CR**vDC = Beschermd (≥ 5KHz). c) Gestraalde overbrengingen. = Kwetsbaar.	Compatibilité de l'EMC. Radio fréquence interférence a) Emmission = Bénigne. b) Menée de Transmissions: U**vDC = Vulnérable. CR**vDC = Protégé - (≥ 5KHz). c) Apparente rayonnée de Transmissions = Non protégés.
	Temperature Installation = +5°C to +30°C In service = -15°C to +40°C	Temperatuur. Installatie = +5°C to +30°C In dienst = -15°C to +40°C	Température. Installation = +5°C to +30°C Dans le service = -15°C to +40°C
	Service Life Shade = +15 Years Sunlight = +10 Years (Deterioration of housings by UV)	Levensduur. Schaduw. = +15 Jaar. Zonlicht = +10 Jaar. (Verslechtering van behuizingen door UV)	Durée de vie. Ombre = +15 année. Lumière du soleil = +10 année. (Détérioration des logements par UV)
IEC 60529, EN 60 529. 	Front assembly IP680 – Components fully potted. Rear cavity IP400.	Voorplaat assemblly IP680 - Onderdelen volledig ingegoten. Achter de holte IP400.	Devant l'Assemblée IP680 Composants entièrement en pot. Cavité arrière IP400.
2011/65/EU 2015/863 RHOS2  	Restriction Of Hazardous Substances - Not Applicable – Does not contain: Lead (Pb). Mercury (Hg). Cadmium (Cd). Hexavalent chromium (Cr6+). Polybrominated biphenyls (PBB). Butyl benzyl phthalate (BBP). Polybrominated diphenyl ether (PBDE). Bis(2-ethylhexyl) phthalate (DEHP). Dibutyl phthalate (DBP). Diisobutyl phthalate (DIBP)	Beperking van gevaarlijke stoffen - Niet toepasselijk – Bevat geen: Lead (Pb). Mercury (Hg). Cadmium (Cd). Hexavalent chromium (Cr6+). Polybrominated biphenyls (PBB). Butyl benzyl phthalate (BBP). Polybrominated diphenyl ether (PBDE). Bis(2-ethylhexyl) phthalate (DEHP). Dibutyl phthalate (DBP). Diisobutyl phthalate (DIBP)	Restriction Des Substances Dangereuses - Non applicables - Ne contient: Lead (Pb). Mercury (Hg). Cadmium (Cd). Hexavalent chromium (Cr6+). Polybrominated biphenyls (PBB). Butyl benzyl phthalate (BBP). Polybrominated diphenyl ether (PBDE). Bis(2-ethylhexyl) phthalate (DEHP). Dibutyl phthalate (DBP). Diisobutyl phthalate (DIBP)
2012/19/EU	Not applicable. Fulfils its function only when with other equipment.	Niet van toepassing. Vervult de functie alleen wanneer met andere apparatuur.	Ne s'applique pas. Remplit sa fonction uniquement lorsque avec d'autres équipements.
	Recycle - Voluntary good practice.		

	CR24vDC = 24v DC (± 3v) - CR12VDC = 12v DC (± 1.5v)		
	ES 	DE 	IT 
 IEC 60335 IEC 61140	Importante. Tensión de alimentación: PELV / SELV - Tensión baja solamente. Sobre voltaje = LED fallo.	Wichtig. Versorgungsspannung: PELV / SELV extra tiefe Spannung nur. Überspannung = LED Defekt.	Importante. Tensione di alimentazione: PELV / SELV - Bassissima tensione solo. Sopra tensione = LED guasto
	Luz intensa. Para una visión directa - Mínimo recomendado distancia de visión: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Intensives LED Licht. Für eine direkte Ansicht - Empfohlenes Minimum Betrachtungsabstand: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Intensa luce LED. Per una visione diretta - Distanza di osservazione minima raccomandata: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M
	Compatibilidad EMC. Interferencia de radiofrecuencia. a) Emisiones = Benigno. b) Llevó a cabo transmisiones: U**vDC = Non protegido. CR**vDC = Protegido (≥ 5KHz). c) Transmisión irradiada = Non protegido.	EMC-Kompatibilität. Hochfrequenzstörungen. a) Emissionen = Benigne. b) Durchgeführte Übertragungen: U**vDC = Anfällig. CR**vDC = Geschützt (≥ 5KHz). c) Gestrahlten Getriebe = Verwundbar.	Compatibilità EMC. Interferenza di radiofrecuencia. a) Emissioni = Benigna. b) Condotta trasmissioni: U**vDC = vulnerabili. CR**vDC = Protetto. (≥ 5KHz). Trasmissioni irradiate = Vulnerabili.
	Temperatura. Instalación = +5°C to +30°C En el servicio = -15°C to +40°C	Temperatur. Installation = +5°C to +30°C Im Dienst = -15°C to +40°C	Temperatura. Installazione. Nel servizio.
	Vida de servicio. Sombra = +15 Años Luz del sol = +10 Años (Deterioro de viviendas por UV)	Lebensdauer. Schatten = +15 Jahre Sonnenlicht = +10 Jahre (Verschlechterung der Gehäuse durch UV)	Vita di servizio. Ombra. = +15 Anni Luce del sole. = +10 Anni Deterioramento degli alloggiamenti da UV)
IEC 60529, EN 60 529. 	Frente la Asamblea IP680 – Componentes completamente potted. Cavidad posterior IP400 - Non protegido.	Frontplatten-Montage IP680 Komponenten, die vollständig vergossen. Hinteren Hohlraum IP400 - Kein Schutz.	Anteriore montaggio. IP680 Componenti completamente in vaso. Cavità posteriore IP400. Nessuna protezione.
2011/65/EU 2015/863 RHOS2  	Restricción de sustancias peligrosas - No aplicable - No contienen: Lead (Pb). Mercury (Hg). Cadmium (Cd). Hexavalent chromium (Cr6+). Polybrominated biphenyls (PBB). Butyl benzyl phthalate (BBP). Polybrominated diphenyl ether (PBDE). Bis(2-ethylhexyl) phthalate (DEHP). Dibutyl phthalate (DBP). Diisobutyl phthalate (DIBP)	Beschränkung Gefährliche Stoffe - Nicht anwendbar – Enthält nicht:	Restrizione de Sostanze pericolose - Non applicabile – Non contiene:
2012/19/EU	No es aplicable. Cumple su función sólo cuando con otros equipos.	Nicht zutreffend. Erfüllt seine Funktion nur mit anderen Geräten.	Non applicabile. Svolge la propria funzione solo quando con altre apparecchiature.
	Reciclaje - Buenas prácticas voluntarias.	Recycling - Freiwillige gute Praxis	Riciclare - Buona pratica volontaria.

	CR24vDC = 24v DC (± 3v) - CR12VDC = 12v DC (± 1.5v)		
 IEC 60335 IEC 61140	Importante. Tensão de alimentação: PELV / SELV de extra baixa tensão apenas. Sobre a tensão = Falha de LED	Ważne. Napięcie zasilania: PELV / SELV Niskie napięcie tylko. Przez napięcie = LED Awaria	Vigtigt. Forsyningsspænding: PELV / SELV Ekstra lav spænding kun. Overskydende spænding = LED fejl
	Diodo emissor de luz intensa. Para uma visão direta - Distância de visão mínima recomendada: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Intensywne światło LED. Dla linii w widoku.- Zalecana minimalna odległość obserwacji: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M	Intens LED lys. For direkte visning - Anbefalet minimum synsafstand: 20-50 LED = +5M 50-80 LED = +10M 80+ LED = +20M
	Compatibilidade EMC Interferência de rádio freqüência. a) Emmissions = benigno. b) realizou transmissões: U ** vDC = vulneráveis ** CR**vDC = protegido (≥ 5 KHz). c) Irradiada transmissões = vulnerável.	EMC zgodności radiowych a) Twierdzą = łagodne. b) Przeprowadzone transmisje: U ** vDC = narażone CR** vDC = chroniony (≥ 5 KHz). c) promieniowania transmisji = narażone.	EMC kompatibilitet Radio frekvens interferens a) Udstråling = god. b) Gennemført transmissioner: U ** vDC = sårbare CR ** vDC = beskyttet (≥ 5 KHz). c) Udstrålede transmissioner = Sårbare.
	Temperatura Instalação = 15°C to +40°C Em uso = -15°C to +40°C	Temperatur linstalacji. = +5°C to +30°C W użyciu. = -15°C to +40°C	Temperatur Installation. = +5°C to +30°C Ved service = -15°C to +40°C
	Sombra de vida de serviço = 15 anos luz solar = 10 anos (deterioração das carcaças por UV)	Żywotność. Odcień = 15. Lata. Słońca = 10 Lata. (pogorszenie oprawy UV)	Levetid. Skygge. = 15 år. Sollys = 10 år (huset påvirkes af UV)
IEC 60529, EN 60 529. 	O conjunto dianteiro IP680 – componentes totalmente em vaso. Cavidade traseira IP400.	Montaż przedni IP680 – składniki pełni doniczkowe. Tylnej jamy IP400.	Front samling IP680 – komponenter fuldt indstøbte. Bageste hulrum IP400.
2011/65/EU 2015/863 RHOS2 	Restrição de substâncias perigosas - não Applicable – não contém: Lead (Pb). Mercury (Hg). Cadmium (Cd). Hexavalent chromium (Cr6+). Polybrominated biphenyls (PBB). Butyl benzyl phthalate (BBP). Polybrominated diphenyl ether (PBDE). Bis(2-ethylhexyl) phthalate (DEHP). Dibutyl phthalate (DBP). Diisobutyl phthalate (DIBP)	Ograniczenie stosowania niebezpiecznych substancji - nie dotyczy – nie zawierają:	Begrænsning af farlige stoffer – ikke anvendelige – indeholder ikke:
2012/19/EU	Não aplicável. Cumpre a sua função somente quando com outros equipamentos.	Nie dotyczy. Spełnia swoją funkcję tylko z innych urządzeń.	Ikke gældende. Opfylder kun sin funktion med andet udstyr
	Reciclar - voluntária boas práticas.	Recykling - dobrowolne dobrych praktyk.	Genbrug - frivillig god praksis.



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