

R600V.RAH5-11225384

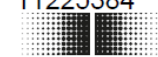
Radar ReflEXTaster

Radar retro-reflective sensor

DéTECTEUR à réflexion radar



11225384



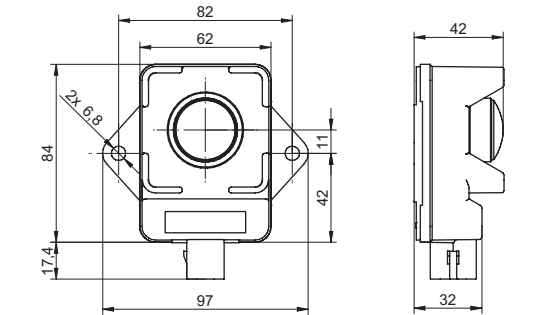
Baumer

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|                                                                                             |                                                                                                      |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
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Abmessungen Dimensions Dimensions



- Alle Maße in mm
- All dimensions in mm
- Toutes les dimensions en mm

Elektrischer Anschluss Connection diagram Schéma de raccordement



- Vor dem Anschliessen des Sensors die Anlage spannungsfrei schalten.
- Disconnect power before connecting the sensor.
- Mettre l'installation hors tension avant le raccordement du détecteur.

Technische Daten

|                                |                       |
|--------------------------------|-----------------------|
| Erfassungsbereich Sd           | 0,3 ... 8,5 m         |
| Öffnungswinkel                 | 6° (3dB)              |
| Betriebsspannungsbereich +Vs   | 9 ... 32 VDC          |
| Stromaufnahme max. (ohne Last) | 160 mA                |
| Ausgangsschaltung              | CAN (5V)              |
| logische Schnittstelle         | CAN SAE J1939         |
| Baud Rate                      | 250 kBaud (500 kBaud) |
| kurzschlussfest                | ja                    |

|                   |                |
|-------------------|----------------|
| verpolungsfest    | ja, Vs zu GND  |
| Arbeitstemperatur | -40 ... +70 °C |
| Lagertemperatur   | -40 ... +85 °C |
| Schutzart         | IP 68/69K      |

Technische Änderungen vorbehalten

Technical data

|                                    |                       |
|------------------------------------|-----------------------|
| sensing distance Sd                | 0,3 ... 8,5 m         |
| aperture angle                     | 6° (3dB)              |
| voltage supply range +Vs           | 9 ... 32 VDC          |
| current consumption max. (no load) | 160 mA                |
| output circuit                     | CAN (5V)              |
| logical interface                  | CAN SAE J1939         |
| baud rate                          | 250 kBaud (500 kBaud) |
| short circuit protection           | yes                   |

|                             |                |
|-----------------------------|----------------|
| reverse polarity protection | yes, Vs to GND |
| operating temperature       | -40 ... +70 °C |
| storage temperature         | -40 ... +85 °C |
| protection class            | IP 68/69K      |

Technical specifications subject to change

Données techniques

|                                 |                       |
|---------------------------------|-----------------------|
| Portée de détection Sd          | 0,3 ... 8,5 m         |
| Angle d'ouverture               | 6° (3dB)              |
| Plage de tension +Vs            | 9 ... 32 VDC          |
| Consommation max. (sans charge) | 160 mA                |
| circuit de sortie               | CAN (5V)              |
| interface logique               | CAN SAE J1939         |
| vitesse de transmission         | 250 kBaud (500 kBaud) |
| Protégé contre courts-circuits  | oui                   |

|                                   |                  |
|-----------------------------------|------------------|
| Protégé contre inversion polarité | oui, Vs vers GND |
| Température de fonctionnement     | -40 ... +70 °C   |
| Température de stockage           | -40 ... +85 °C   |
| Classe de protection              | IP 68/69K        |

Sous réserve de modifications techniques

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTICE: Changes or modifications made to this equipment not expressly approved by Baumer may void the FCC authorization to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure Information: This equipment complies with FCC exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

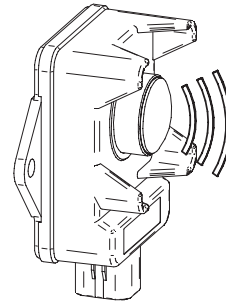
Canada Compliance Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

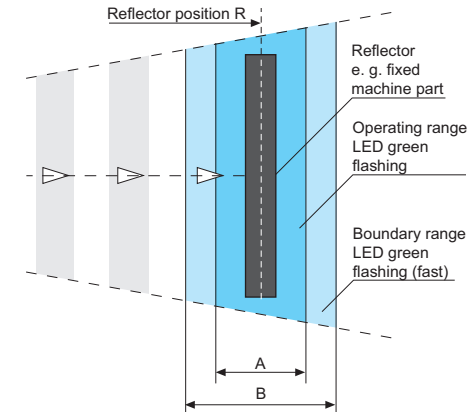
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps. Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.

## Visuelle Diagnose - Visual diagnostic - Diagnostic visuel

| Status / Status / Condition                                                                                                              | Code                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Reflektor innerhalb der der Toleranz<br>Reflector within tolerance A<br>Réflecteur dans les limites de la tolérance A (Operating range)  | 100 ms grüne LED an / green LED on / LED verte alluminée<br>900 ms LED aus / off / éteinte                                         |
| Reflektor innerhalb der der Toleranz B<br>Reflector within tolerance B<br>Réflecteur dans les limites de la tolérance B (Boundary range) | 2x 50 ms grüne LED an / green LED on / LED verte alluminée<br>880 ms LED aus / off / éteinte                                       |
| Reflektorsignal zu schwach<br>Reflector signal too weak<br>Signal du réflecteur trop faible                                              | 3x 50 ms grüne LED an / green LED on / LED verte alluminée<br>800 ms LED aus / off / éteinte                                       |
| Objekt zwischen Sensor und Reflektor<br>Object between sensor and reflector<br>Objet entre le capteur et le réflecteur                   | wie oben zusätzlich 100 ms gelbe LED an<br>as above with additional yellow LED on<br>comme ci-dessus avec supplémentaire LED jaune |
| Elektronikfehler / Hardware fault / Défaut de matériel                                                                                   | 50 ms rote LED an / red LED on / LED rouge alluminée<br>50 ms LED aus / off / éteinte                                              |
| CAN Abwurf (Fehlfunktion)<br>CAN bus off (malfunction)<br>Arrêt du bus CAN (dysfonctionnement)                                           | 50 ms magenta LED an / on / alluminée<br>150 ms LED aus / off / éteinte                                                            |
| Adresszuweisung fehlgeschlagen<br>Address claim failed<br>Assignment d' adresse failli                                                   | 50 ms magenta LED an / on / alluminée<br>50 ms LED aus / off / éteinte                                                             |
| Warten auf Adresszuweisung<br>Waiting for Master ECU address claim<br>En attendre il assignment d' adresse du maître ECU                 | 500 ms magenta LED an / on / alluminée<br>500 ms LED aus / off / éteinte                                                           |
| Andere / other / autre                                                                                                                   | blaue LED / blue LED / LED bleue                                                                                                   |



## Reflektorposition - Reflector Position - Position du réflecteur



Reflektorposition R setzen  
Set reflector position R  
Régler la position du réflecteur R  
(SAE J1939 Memory Access)

Teach Reflektorposition R  
Teach reflector position R  
Teach du reflecteur R  
(SAE J1939 Memory Access)

Reflektordistanz in mm an Adresse schreiben 0x07E388  
Write reflector distance in to address 0x07E388  
Inscrivez la distance du réflecteur en mm à l'adresse 0x07E388

Wert 1 auf Adresse 0x07E389 schreiben  
Write value 1 to address 0x07E389  
Inscrivez la valeur 1 à l'adresse 0x07E389

## CAN Kommunikation - CAN communication - communication CAN

### Grundinformation CAN - basic information CAN - informations de base CAN

|                                                                        |                                                                                                                                                                                                                                                                                                               |                                                                                         |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| ISO Name<br>ISO name<br>Nom ISO                                        | Manufacturer code:<br>ECU instance:<br>Function instance:<br>Function:<br>System:<br>System instance:<br>Industry group:<br>Arbitration capable:                                                                                                                                                              | 343 (Baumer Group)<br>0<br>4<br>255 (non specific)<br>127 (non specific)<br>0<br>2<br>1 |
| Geräteadresse<br>Device address<br>Adresse de l'appareil               | Unterstützt / supports „commanded address“ /<br>supporte adresse commandée (PGN 0xFED8)<br><br>im Bereich / in range / dans l' interval:<br>0x80 ... 0xCF (Standard / default / défaut 0x80)                                                                                                                  |                                                                                         |
| SAE J1939 Memory<br>Access (MA)<br>Protokoll / protocol /<br>protocole | Tool Anforderungen / requirements / exigences<br>- user level = 1<br>- Key for access is seed from sensor<br>- direct spatial addresses (is pointer)<br>- r/w command memory length = 1<br>- use transfer length from proceed reply<br>- ISO name Function field = 129<br>- ISO name Industry group field = 0 |                                                                                         |

### Objektdetektion und Zähler – object detection and counter – détection et comptage d'objets

PGN CAN Nachricht / CAN message / Message CAN : 0xC000

| Start bit | Bits | Abstand offset<br>décaillage | Skalierung<br>scaling<br>écaillage | Beschreibung / description / description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|------|------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1         | 2    | 0                            | 1                                  | Sensorstatus / Sensor status / état de capteur<br>0 = Kein Fehler / no error / Pas d' erreur<br>1 = Reversibler Fehler / reversible error / erreur reversible<br>2 = Irreversibler Fehler / irreversible error / erreur irréversible                                                                                                                                                                                                                                                                             |
| 3         | 3    | 0                            | 1                                  | Sensorstatus nach Teach / sensor status after reflector teach / état du capteur après Teach du réflecteur<br>0 = Kein Fehler / no error / pas d'erreur<br>1 = Signal zu schwach / signal too weak / signal trop faible<br>2 = Reflektor ausserhalb Gültigkeitsbereich / reflector outside valid range / Réflecteur en dehors de la plage valable<br>1,2 = Teach nicht akzeptiert / teach not accepted / Teach non accepté                                                                                        |
| 6         | 1    | 0                            | 1                                  | Status Objektdetektion / Object detection status / État de la détection des objets<br>0 = Kein Objekt zwischen Sensor und Reflektor / No object between sensor and reflector /<br>Aucun objet entre le capteur et le réflecteur<br>1 = Objekt zwischen Sensor und Reflektor / object between sensor and reflector / Objet entre le capteur et le réflecteur                                                                                                                                                      |
| 7         | 2    | 0                            | 1                                  | Reflektorpositoin / Reflector position / Position du réflecteur<br>0 = Reflektor im Betriebsbereich (A) / Reflector in operating range (A) / Réflecteur en zone fonctionnement<br>1 = Reflektor im Grenzbereich (B) / Reflector in boundary range (B) / Réflecteur en zone limite<br>2 = Reflektor ausserhalb Bereich (A/B) / Reflector outside of range (A/B) / Réflecteur en dehors de la plage valable<br>3 =Reflektorsignal zu schwach / Reflector signal too weak / Le signal du réflecteur est trop faible |
| 9         | 32   | 0                            | 1                                  | Zähler für Objektdetektionsereignisse / Counter for object detection events / Compteur d'événements de détection d'objets : 0...4'294'967'296                                                                                                                                                                                                                                                                                                                                                                    |
| 41        | 12   | 0                            | 1                                  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Für weitere Informationen lesen Sie bitte die Bedienungsanleitung - For further information please refer to the user manual - Pour plus d' informations, veuillez vous référer au manuel d' utilisation

13. Jan 2021 150

NOTES:

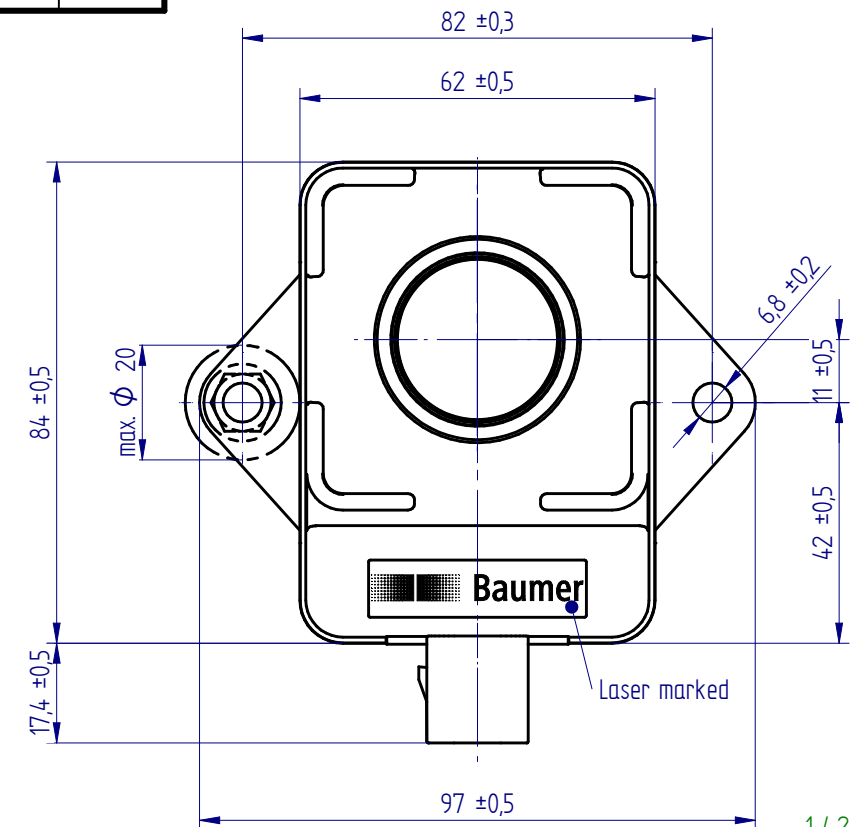
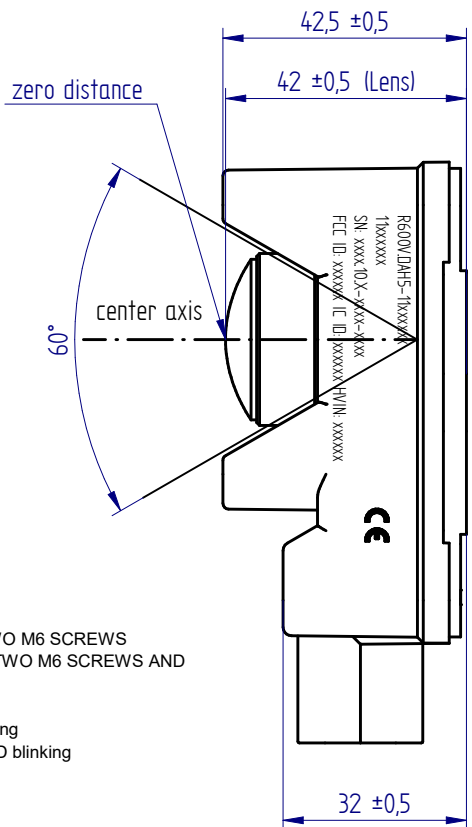
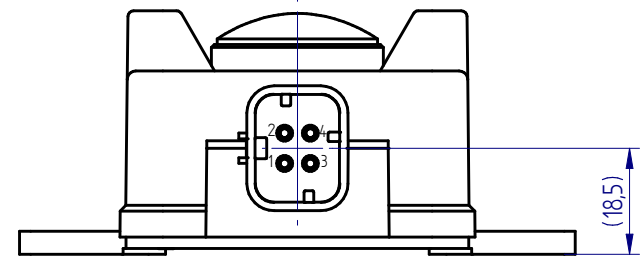
- ELECTRICAL SPECIFICATION:
  - VOLTAGE SUPPLY RANGE: 9V...32V (12VDC/24VDC VEHICLE POWER)
  - CURRENT CONSUMPTION: <160mA (averaged)
  - RADAR FREQUENCY: 122GHz...123GHz
- OUTPUT FUNCTION:
  - CAN SAE J1939
  - BAUD RATE: 250/500kbaud
  - OUTPUT CIRCUIT: CAN 5V without internal 120Ω terminator
  - CAN UPDATE RATE:  $\geq 0.2\text{Hz}$  ...  $\leq 100\text{Hz}$
  - SENSING RANGE: 300mm...8500mm (center axis)
  - REFLECTOR POSITION RANGE: 300mm...8500mm (center axis)
  - BLIND RANGE: 300mm
- MECHANICAL DATA:
  - RECTANGULAR HOUSING: 97 x 84 x 42.5mm (without connector)
  - DIAMETER MOUNTING HOLES: 6.8mm±0.2mm
  - RECOMMENDED SCREWS: M6 ACC. MBM 10105
  - INSTALLATION TORQUE: Screw with property class 10.9: max torque of screw 12Nm...15Nm, Screw with property class 8.8: max torque of screw 10Nm...12Nm
  - ENCLOSURE MATERIAL: POLYAMID (GLASS FIBRE REINFORCED)
  - MOUNTING PLATE: ALUMINUM (COATED WITH CATAPHORETIC PAINTING (KTL))
  - LENS MATERIAL: Polyetherimid (PEI)
- AMBIENT CONDITIONS:
  - STORAGE TEMPERATURE: -40°C...+85°C
  - OPERATING TEMPERATURE: -40°C...+70°C
- SENSOR MEETS FOLLOWING REQUIREMENTS OF EMC AND ENVIRONMENT ACC. FSP:
  - EMC AGRICULTURAL MACHINERY EN ISO 14982 (12V/24V-SYSTEM)
  - EMC CONSTRUCTION MACHINERY EN 13309 (12V/24V-SYSTEM)
  - EMC EARTH MOVING MACHINERY ISO 13766 (12V/24V-SYSTEM)
  - EUROPE: RADIO EQUIPMENT AND REPEALING DIRECTIVE (RED) 2014/53/EU
  - USA / CDN: COMPLIANCE STATEMENTS SEE PAGE 2, CHAPTER 11 OF THIS DRAWING
  - EMC (CE) EN 61000-6-2 / EN 61000-6-3
  - PROTECTION CLASS ISO 20653\_2013: IP68/IP69K
  - PARTICLE IMPACT EN ISO 20567-1 (GRAVEL EN11124-2)
  - RANDOM VIBRATION IEC 60068-2-64 (5Hz...2000Hz, 11.55 Grms)
  - OPERATING MECHANICAL SHOCK IEC 60068-2-27 (50g)
- PART IS MARKED WITH BAUMER LOGO; PART NUMBER; DATE CODE SERIAL NUMBER
- MOUNTING RECOMMENDATION:
  - REQUIRED FLATNESS OF THE SENSOR MOUNTING SURFACE  $\leq 0.2\text{mm}/100\text{mm}$
  - DIRECT MOUNTING ONTO A STEEL PLATE WITH A THICKNESS OF 6mm WITH TWO M6 SCREWS
  - INDIRECT MOUNTING ONTO A STEEL PLATE WITH A THICKNESS OF 3mm WITH TWO M6 SCREWS AND TWO FLANGE NUTS
- LED FUNCTIONS (LED INSIDE LENS)
  - SENSOR FULLY OPERATIONAL (Reflector in Operating Range A): GREEN LED blinking
  - SENSOR FULLY OPERATIONAL (Reflector in Boundary Range B): GREEN/Yellow LED blinking
  - NO REFLECTOR OR SWITCHING DETECTED: GREEN / YELLOW 2x blinking
  - CAN BUS WAITING ON MASTER OR ERRORS: MAGENTA LED blinking
  - HW FAULT: RED LED blinking
- Intended use / application policy:
  - The suitability and functionality of a Baumer product and its performance under different applications and / or end-use cases can only be verified by testing, and shall ultimately be the responsibility of the customer.
  - The product shall not be used:
    - For functional safety applications and in potentially explosive atmospheres.
    - In the direct control and modification of the state of function of the machine.
  - Possible malfunctions and failed measurements of the sensor must be intercepted at the system level and shall not lead to unsafe situations in the system.
  - The customer shall perform its own safety assessment to account for sensor behavior in particular situations (e.g. distance fluctuations in static situations, operator caused distance manipulation by hand or other objects).
  - Safety relevant information must be communicated to the end-user.
- Recommended free space around radar lens:

Rotational cone with an angle of  $\pm 30^\circ$  around sensor center axis

Sensitivity and detection of objects near the dead band can be influenced by disturbing objects (e.g. metal boom structures or water hose) within this free space. Moving objects up to  $60^\circ$  outside of free space should be avoided.

Further testing is recommended to define a smaller free space.

| Mating Connector |        |
|------------------|--------|
| AMPSEAL 16       |        |
| 776524-1         |        |
| PIN 1            | +Vs    |
| PIN 2            | CAN HI |
| PIN 3            | GND    |
| PIN 4            | CAN LO |



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                                                                     | Item |            |    |            | Pos. | Material |                 |  |          | Remarks              |                                    |            |      |   |
| Mod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rev  | Drawn      |    | Approved   | Mod  | Rev      | Drawn           |  | Approved | <div>delivered</div> | Project 10714028 Off Highway Radar |            |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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11. Compliance Statements:

a. FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.  
Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.  
NOTICE: Changes or modifications made to this equipment not expressly approved by Baumer may void the FCC authorization to operate this equipment.  
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.  
Radiofrequency radiation exposure Information:  
This equipment complies with FCC exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.  
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

b. Canada Compliance Statement

This device complies with Industry Canada licence-exempt RSS standard(s).  
Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.  
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.  
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.  
  
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:  
(1) l'appareil ne doit pas produire de brouillage, et  
(2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.  
Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.  
Ce transmetteur ne doit pas être placé au même endroit ou utilisé simultanément avec un autre transmetteur ou antenne.

|                                                                                                                             |                     |     |                               |            |           |          |                   |            |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|-----|-------------------------------|------------|-----------|----------|-------------------|------------|--------------------------------------------------------------------------------------------------------------------|
| This drawing is OUR PROPERTY and may not be copied, recreated or made available to any third party without prior permission | Qty                 |     | Item                          |            | Pos.      | Material |                   | Remarks    |                                                                                                                    |
|                                                                                                                             | Mod                 | Rev | Drawn                         | Approved   | Mod       | Rev      | Drawn             | Approved   | <div>deleted</div> <div>Project 10714028 Off Highway Radar</div> <div>Replaced by</div> <div>Replacement for</div> |
|                                                                                                                             |                     | a   | 13.01.2021                    | cg         |           |          |                   |            |                                                                                                                    |
|                                                                                                                             |                     |     |                               | 13.01.2021 |           |          |                   | rma        |                                                                                                                    |
|                                                                                                                             |                     |     |                               |            |           |          |                   |            |                                                                                                                    |
|                                                                                                                             | R600V.DAH5-11225384 |     | Radar retro-reflective sensor |            | Scale 1:1 |          | Drawn             | 09.03.2020 | cg                                                                                                                 |
|                                                                                                                             |                     |     |                               |            |           |          | Checked           | 09.03.2020 | rma                                                                                                                |
|                                                                                                                             |                     |     |                               |            |           |          | Approved          | 09.03.2020 | wemi                                                                                                               |
|                                                                                                                             |                     |     |                               |            |           |          | 11225384 RZ.00020 |            | A                                                                                                                  |
|                                                                                                                             |                     |     |                               |            |           |          |                   |            |                                                                                                                    |
|                                                                                                                             |                     |     |                               |            |           |          |                   |            |                                                                                                                    |



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